

FINANCIAL TIMES

War and peace How Kohl stirred up a storm

an Davidson, Page 10



But not in Japan, please Spanish inquisition

The scandals and the judges



North Korea

Famine sends a warning

block BA

Heathrow

The Clinton administration will block attempts by British Airways to form fresh alliances

with US carriers unless the UK grants the US freer access to London's Heathrow airport.

Senior US officials say any moves by BA to conclude a code-

sharing agreement with Ameri-

can Airlines or to increase its 24.6 per cent stake in USAir

would be unlikely to be approved

unless the UK government is prepared to renegotiate the countries' bilateral aviation treaty.

Talks on a new aviation agree-

ment broke down last year over

access to Heathrow. The UK

offered a small increase in the number of flights by US airlines,

but the US government rejected

US negotiators in the failed talks say London was not pre-

pared to make concessions on

Heathrow because it did not, at

that point, want anything in return. The US believes any attempt by BA to conclude a US alliance would provide it with leverage on the Heathrow issue.

A senior US official said: "It's

unfortunate that our relation-

the offer as inadequate.

without

deal on

By Michael Skapinker in Singapore

WEDNESDAY FEBRUARY 7 1996

 $doll^{9}$

Simple and a second and a secon

ochrane, Michael In

vorries

wine e se of the latest that the latest that

Secure 2000 in the second seco

Total

3 14

2017年10年10日

N. D. Substrate &

Table Relien

TOTAL E MA

· NARTA 西達

in that in the single

d Newsers said

in in an Description of the

100 1.002.003.5E

i el conference, è

A : Consider has B

new cultures one

ict Expectations

Carrie Officer

Industries Ltd

آل 📜

 $\min \mathbb{L}^{K}$

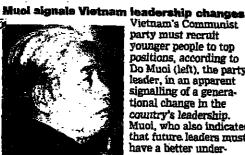
ಲ್ಲಿ _{ಆರ}್ ಚಿತ್ರಗಳಲ್ಲಿ

计分数数数

Jaguar lays off up to 2,200 workers after US orders fall

Jaguar, the luxury UK carmaker owned by Ford, said it would lay off most of its 2,200 production workers for a week to reduce stocks of unsold cars. The company blamed the stoppage mainly on lower sales in the US, its biggest market. It said it had no plans for further short-term lay offs or redundancies. Jaguar's move surprised analysts as it followed outlimistic sales figures last year. Page 12 and lowed optimistic sales figures last year. Page 12 and Lex; Hopes for tax cuts. Page 8

Spanish murder fuels poll violence fears: Fears of a resurgence of Basque violence during the Spanish general election campaign escalated when the brother of a Socialist MP was murdered on a San Sebastian street. Page 3



party must recruit younger people to top positions, according to Do Muoi (left), the party leader, in an apparent signalling of a generational change in the country's leadership. Muoi, who also indicated that future leaders must have a better under-

standing of economics and technology, is understood to have decided to step down at a party congress around June when the country's economic reform programme will be reviewed. His retirement is likely to have a knock-on effect in the party leadership. Page 12

Universal Studios plans new theme park: A \$1.6bn theme park starring cinema favourites is to be built in Osaka, Japan, through a joint venture which combines the talents and financial power of Canada's MCA entertainment group, Britain's Rank Organisation and Japanese investors. The scheme marks the first overseas venture by Universal Studios Recreation Group. Page 12

US budget agreement 'within reach': President Bill Clinton and Senator Bob Dole insisted that a balanced budget agreement was within reach in the light of new policy proposals agreed by the nation's governors. Page 4

Yeltsin's former press secretary criticised: sin's former press secretary for revealing a compromising glimpse of life in the Kremlin in a forthcom-

Johnson Matthey expands in US; Johnson Markhey, the precious metals and engineering technology group, underlined the strategy of expanding its electronic materials business with the \$40m purchase of the circuit board manufacturing operations of Cray Research, the US computer

Warning for Europe from Asian delegation: An Asian delegation arriving in Rome for two days of preparatory talks on next month's summit between European and Asian leaders is carrying a stern warning about raising delicate issues such as human rights and democracy. Page 6

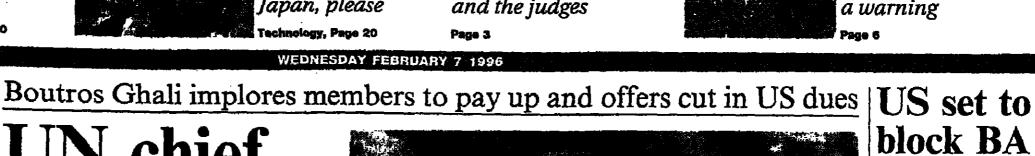
Allied Domecq issues second warning: A second profits warning in seven months from Allied Domecq heightened resentment in the City of London towards the international drinks and retailing group, prompting sharp downgrades and fears of a dividend cut. Page 13

London & Continental Railways, the favoured bidder for the £3bn (\$4.5bn) English Channel tunnel high speed rail link, is negotiating the final details of the package required to clinch the deal, according to rail industry managers close to the bid.

Modeya withdraws from Germany: Medeva, the acquisitive pharmaceuticals company, has withdrawn from Germany and the oncology market with the disposal of Ribosepharm, its cancer drug business. Page 19

Uproar over gas chief's retirement: Uproar over the retirement package for Cedric Brown, British Gas's departing chief executive, overshadowed the company's plan to split itself in two. Page 13

H STOCK MARKET INDI	CES	E GOLD	
Hew Yark tenchiline		New York Come	K
Dow Jones Ind Av5,436.49	(+28.9)		(415.9)
NASCIAL COMPOSITE1,086.91	(+3.57)	J	
Europe and For East		London: close\$411.8	(414.5)
CAC401,988.47	(+2.88) (+9.27)	C1020	(4 tam)
DAX	(40,9%)	E DOLLAR	_
FT-SE 100	(+97.77)		ine.
Mand "	(,	£1.54025	
E US LUNCHTIME RATE	38	DM1.47305	
Federal Funds		Ffr5.062	
3-min Trees Bills; Yid4.971%		SFr1.20175	
LONG BOOK1103		Y105.435	
YIGO			
		Londoff: 21.5404	(1.5327)
WOTHER RATES	<u></u>	DM1,4718	(1,4893)
19K: 3-mo Interbenk	(Same)	FF:50576	(5,0555)
MC 10 vr 6股	(984)	SF:1.2015	(1.2005)
FORESE: 10 or GAT	(104.81)	Y105.57	(105.12)
· Sandacamer (1) or Farnel	(23,10)		
Japan: 10 yr JGB 111.204	(111:283)	M STEPLING	
—		DM2.2671	(2.252)
NORTH SEA OF (Argu		Zefera elecar	Y 105.3
Brent 15-day (Max)	(samé)	Tokyo ciosa:	1 100-0



UN chief warns of imminent bankruptcy

By Michael Littlejohns in New York and Bruce Clark in London

Mr Boutros Boutros Ghall, the UN secretary-general, yesterday implored the US and other members to pay their dues to the world body and stays off the imminent prospect of its financial collapse.

In a new proposal to solve the worst cash crisis in the UN's 50-year history and lessen opposi-tion in the US Congress, he also proposed that Washington's contribution be cut from more than 25 per cent to 15 or 20 per cent. But Mr Boutros Ghall, while warning that staff cuts at the

10,000-strong UN secretariat were

inevitable, stopped short of

endorsing a plan by his chief

financial officer for the immediate axing of over 1,000 posts. "The financial crisis has brought the UN to the edge of insolvency," he told a UN finance committee, adding that he would appeal to every debtor nation to provide him with a timetable for

settling its arrears.

have already been felt at the UN headquarters in New York.

The 300-strong Department of Peace-Keeping Operations, which runs blue-helmet missions in 16 of the world's troublespots, has been told to avoid long-distance telephone calls and to prepare for a 15 per cent cut in staff levels. Mr Joseph Connor, the UN's

financial manager, warned this

week that on present trends, the

UN's cash position would begin a "deep, continuous decline" in mid-1996, leading to bankruptcy by the end of the year. The UN faced debts of \$2.3bn at the end of last year, of which the US owed \$1.2hn. The secretariat has only managed to keep functioning in recent months by

source of funding could run out Most of the US arrears reflect the reluctance of the US Congress to finance peacekeeping

The UN currently charges the US for 25 per cent of its general



Boutros Boutros Ghali warned that staff cuts at the 10,000-strong United Nations secretariat were inevitable and added: 'The financial crisis has brought the UN to the edge of insolvency'

budget and 31 per cent of the cost dipping into a separate account of peacekeeping. However, Congress has forbidden the adminisfor UN peacekeeping, and Mr Connor has warned that this tration to pay more than 25 per cent of peacekeeping costs.

Mr Boutros Ghali, in a bid to

party the hostility of US legislators, suggested a limit of 15 or 20 per cent on the regular budget contributions of any member state. Such a ceiling "would bet-ter reflect the fact that this

organisation is the instrument of all nations", he said.

He also proposed a special session of the UN General Assembly, before its regular meeting this autumn, to deal exclusively with the debt crisis.

However, diplomats at the UN said it was far from certain that the prospect of a lower contribution would be enough to soften US Congressional hostility. Last

month's proposals by the European Union for a new system of calculating contributions, with Japan paying far more and the US somewhat less, have received a cool response in Washington, Previous US administrations

have rejected proposals for a reduction in their contribution on the grounds that this would mean a reduction in US influence over the organisation.

ship, which is one of the stron-gest in the world, is based, in the aviation field, on the coarsest kind of horse-trading." He said the US government believed that it had an "understanding" that greater access would be granted to US carriers:

"That hasn't been fulfilled." Over the past year, the US has concluded open skies agreements with nine smaller European countries. Last week, it reached a preliminary open skies agreement with Germany.

Last month, BA said it had decided not to increase its stake in USAir, which has had diffi-culty reducing its operating costs. US officials said that if BA had sought permission to increase its stake, this would have been refused.

The official said BA would also experience difficulties if it attempted to conclude a code-

Continued on Page 12

Russia's 'dirty money' finds Swiss home

Moscow mafia sends cash west as fear of Communist presidential election win grows

Chrystia Freeland in Moscow

Switzerland's economic problems have made some of its companies and financial institutions more willing to accept "dirty" money from international criminal organisations, including the Russian mafia, according to senior European police officials.

The trend coincides with predictions of a rise in money leaving Russia in coming months because of mounting fears among newly rich entrepreneurs that the Communists will win presidential elections in June.

The violent character of Russia's emerging capitalist economy was underscored this week when Alexei Butenko, a 26-year-old banker, was found stabbed to

th in a Moscow car nark. The killing was the latest in a series of high-profile murders of prominent Moscow financiers over the past year.

Law enforcement officials believe the protracted period of sluggishness in the Swiss economy may have made some companies less choosy about where they get their money. Some offifear this relaxation of standards under economic pressure may inflict lasting damage to Switzerland's law-abiding busi-

One international crime expert in Davos noted that the Russian mafia had also been taking an increasingly active interest in their own country's banking sector. This gave them access to sensitive and confidential informa-

tion on foreign companies which could then be used to target them through protection rackets. "Nowadays they don't rob

banks, they own them," expert said. However, Mr Jules Kroll, chair-

man of the private sector investigation business Kroll Associates. told a session of the World Economic Forum in Dayos that Switzerland had done more than any other country to crack down on money laundering and to estab-lish links with law enforcement

But experts argue that Switzerland's financial regulations still include some loopholes which permit money laundering nota-bly through unregulated fund management businesses.

Swiss police take comfort from

of the Russian mafia has had less impact on the level of criminal activity in Switzerland than in Austria and Germany.

the fact that the westward spread

But other police agencies are worried that banks dominated by the Russian mafia are increasingly interested in setting up in international financial centres. They fear that western authorities are reluctant to stand in their way in case western finan-

vented from setting up in Russia. Moscow's business killings resemble the settling of scores in the criminal underworld in the west but in Russia violence is a pervasive part of the developing capitalist culture. A weak and corrupt police force and the lack of enforceable contracts have bred an environment in which businessmen are regular victims of gangland-style assassinations.

cial institutions are in turn pre

Giant airliner battle, Page 5

I need a couple of raincoats cleaned overnight."



Say the word, and our valets will clean and deliver your challing by meaning. If it's wrinkled, they'll press it with equal dispatch. We will polish your shoes with a virtuoso's wrinkled, thee'll press it with equal dispatch. We will polish your shoes with a virtuoso's touch, and it need he, even provide new laces—all with our compliments. And our room service chels will ensure your breaklast arrives well before your 5:30 a.m. FOUR SEASONS HOTELS taxi does. In this value-conscious era, the demands of business demand nothing less. For reservations, phone your travel counsellor or call us toll free. Four Seasons - Recent Matels and Resorts

Four Seasons . Regard, Defining the art of service at 40 holds in 89 countries

BT joins German groups in third telecoms consortium

By Michael Lindemann in Bonn and Paul Taylor in London

RWE and Viag, two of Germany's largest industrial groups, plan to join British Telecommunications to create a third consortium vying for position in the German telecoms market, Europe's big-

The two German groups will sign a letter of intent to work with BT on providing telecoms services to corporate and residential clients in a move which sig-nals a further consolidation of the German market before the introduction of full competition

Under the agreement which will be formally announced today, a new company will be created to bring together the existing telecoms networks owned by RWE and Viag.

The German companies said they might also expand their activities to include mobile and satellite communications.

The new venture will compete directly with Deutsche Telekom,

which includes two of Germany's biggest companies, Veba and Mannesmann, plus American Telephone & Telegraph of the US and Britain's Cable and Wireless, both international telecoms operators. The new German telecoms con-

sortia have been keen to secure international partners to improve their chances of operating outside Germany and to take advantage of foreign operators' experience in liberalised telecoms

BT and Viag first agreed to create a joint venture, called Viag InterKom, just over a year ago, saying they look for a number of other German companies, including possibly BMW or the insurance group Allianz, to join them as shareholders.

Now that RWE is joining the existing partnership, it is thought unlikely that additional German partners will be sought. The three companies are expected to complete talks on the alliance by

the state-owned monopoly, and a second alliance of companies Executives involved in negotiations also said yesterday that there would be no exchange of cash or equity at this stage, and that the three companies would simply be pooling their resources ahead of full-scale liberalisation.

If completed the deal will mark a further step towards the consolidation of the German telecoms market where, just nine months ago, five of the country's biggest companies were unveiling ambitions plans to compete with Deutsche Telekom, the world's third largest telecoms operator.

The only one of the five not to have committed itself to one of the new private sector alliances is Thyssen, the steel and engineering group.

Thyssen is working with Viag in an effort to win a 49.9 per cent stake in DBKom, the telecoms subsidiary of the federal railway system Deutsche Bahn, but together with Veba, is also the largest shareholder in E-Plus, the third German mobile phone net-WOTK.

CONTENTS

Break-up of British Gas..... 14 FT Actuaries. London S€ Foreign Exchanges . Wed St/Bourses 29-32 World Trade Naws

LONDON - LEEDS - PARIS - FRANKFORT - STOCKHOLM - MADRID - MEN YORK - LOS ANGELES - TOKYO O THE FINANCIAL TIMES LIMITED 1996 No 32,902 Week No 6

EUROPEAN NEWS DIGEST

President Boris Yeltsin has made spending pledges ahead of the presidential elections in June that could be worth \$250 (£162) a head and may double the Russian budget deficit this

Seven presidential pronouncements in recent weeks have promised, among other things, to spend more on rebuilding Chechnya, pay wage arrears to government employees, and increase student

A Moscow-based investment office, AIOC, has estimated Mr Yeltsin's additional spending proposals are equivalent to \$250 per voter in a country where the average monthly wage is about \$100.

AIOC costed the pledges at \$16.5bn, which would double the government's projected budget deficit this year. That calculation was made before the government clinched a deal with striking miners over the weekend, promising a further Rbs10.400bn (£1.4bn).

The announcements have led to stark warnings from Mr Anatoly Chubais, the former first deputy prime minister and chief architect of Russia's IMFapproved stabilisation programme, that a populist spending spree could bust the budget. That could reignite inflation and "lead to a crisis on the foreign exchange and bond markets, and threaten a collapse of the banking system", he wrote in the Financial

But so far Russia's infant

Mr Yevgeni Yasin, Russia's economy minister, admitted yesterday that his government was under mounting pressure to abandon its policies of fiscal and monetary restraint before June's presidential election. but said he was determined to stand firm, writes Guy de Jonquières in Davos.

He told the World Economic Forum in Davos that President Boris Yeltsin was being urged by many of his supporters to "forget his anti-inflationary promises just to win votes" by increasing spending and adopting other populist mea-sures advocated by the Com-

Mr Yasin said he would resist demands to relax eco-nomic policy. "I will stand up to that pressure and I am confident that we will succeed."

markets have taken both wild promises and fierce warnings remarkably calmly. The rouble has held steady against the US dollar and even strengthened a little this week. Yields on government debt have also fallen to near all-time lows, albeit, it seems, partly as a result of the central bank's massaging of

A big test of investors' mood will come today as the government tries to auction almost Rbs8.500bn of short-dated government paper.

"There is clearly a big push to mollify an angry electorate but I think the government understands the need to keep control of the economy and inflation." says Mr Thomas



The cashier has no money! said a sign last weekend at a coal mine near the town of Novokuznetsk, 3,000km east of Moscow. Some 500,000 Russian miners went on strike last week for unpaid wages

Reed, an analyst at AIOC. Part of the explanation for the tranquillity is that Russian traders draw a big distinction between words and deeds. Moreover, the president's advisers have been reassuring them the extra spending will not jeopardise the macro-economic stabilisation programme.

"Moves which give greater attention to socio-economic issues and restoration works in Chechnya are being implemented in the framework of the budget for the current time," Mr Alexander Livshits, the president's chief economic aide, said yesterday.

The IMF's specialists in Moscow are desperately trying to keep abreast of all the spending commitments but are not yet alarmed.

"As far as I am aware, I do not know of a decree or a combination of decrees which violates the budget or the fiscal and monetary programme that has been worked out with the IMF and implemented by the central bank," says one senior western economist in Moscow. "But if they go ahead and spend the additional money it will show up in all the figures fairly quickly."

The IMF will certainly demand greater comfort before approving a possible \$9bn three-year loan to the Russian government. "There is a little less certainty about which way the wind is blowing and there is as yet no certainty about where we will all end up," says the economist. The government may be able to siphon money away from some parts of the budget to spend elsewhere and may try to frontload its spending in the first

few months of the year. In an interview in the Izvestiya newspaper yesterday, Mr Alexander Smirnov, head of the main directorate of the federal treasury, suggested the government had scope to increase wages in the short term by diverting money from long-term spending commitments, such as capital investment and science. "But that

will simply eat up our national

gave evaluations, political opinions.

man they once saw as their leader. "Boris Nikolaevich does not have and never had any ideology, any democratic convictions of his own," Mr Kos-Boris Nikolaevich as a tragically lonely man, especially now that the democrats have left him, the democrats who, in

budget increases social spending By Peter Wise in Lisbon

Lisbon

Portugal's new Socialist government yesterday unveiled a "budget with a social conscience" for 1996, aimed at cutting the fiscal deficit and increasing social spending without raising taxes.

The proposals were presented to parliament with the outline of a privatisation programme designed to raise more than Es380hn (\$2.5bn) in less than a year through the sale of power, telecommunication and other companies.

Opposition parties attacked some of the proposals yesterday but parties on the left and right are unlikely to vote together against the budget to defeat the centre-left government, which fell four seats short of an overall majority in a general election last October.

Mr Antônio Sousa Franco finance minister, has set a target of reducing the budget deficit to 4.2 per cent of gross domestic product in 1996, from 5.2 per cent last year. This falls just within plans to meet the EU monetary union requirement of 3 per cent in 1997.

He said the budget was designed to stimulate investment, lower inflation and ensure fiscal rigour, as well as reallocating resources to promote greater social justice. Among social measures, he announced the creation of a minimum national income for the country's poorest families.

The deficit cut would be achieved despite an increase in social spending to 47.3 per cent of total expenditure from 45.6 per cent in 1995. A proposal to spend Es840bn on education, 12 per cent more than last year, is the biggest planned increase.

Spending cuts are to be made in the operating budgets of some ministries including defence, foreign affairs and jus-tice. But the deficit is largely to be reduced through increased tax revenue, forecast to grow by 7.9 per cent this year to Es5,338bn from Es4,948.6bn in 1995.

The centre-right Social Democrats, the main opposition party, yesterday questioned how the government could increase revenue so substantially without raising income or corporate taxes and by lowering some indirect taxes.

Mr Sousa Franco is placing his confidence largely in stronger economic growth. The government forecasts GDP will up from unofficial estimates of about 2.5 per cent in 1995. The government aims to stimulate growth by increasing state investment by 20 per cent to Es397bn, largely to be spent on transport infrastructure.

Mr Sousa Franco said privatisations planned for 1996 and 1997 included Electricidade de Portugal, the national power company, and a second tranche of Portugal Telecom, as well as cement, steel, tobacco, paper pulp companies and Banco Fomento e Exterior, Portugal's fifth largest financial group.

The French government is to match its recent tax break

initiative for deprived city zones with a new series of fiscal exemptions to try to stem depopulation in rural areas: It will give rural employers and individuals temporary relief from social security charges, increase investment allowances and reduce property taxes.

France to give

rural tax breaks

The largest farmers' union, the FNSEA, welcomed the government measures, but said more would need to be done to stop "desertification" of rural areas, which had left 20 per cent of the country's population living on 80 per cent of its land. The union said it would use an agriculture conference to be hosted tomorrow by prime minister Alain Juppé to push for an

France is already getting some FFr15bn (\$3bn) in European Union aid in the 1994-99 period to help declining rural regions covering 17 per cent of French territory.

increase in farmers' pensions and for better investment tax

Mr Eneko Landaburu, the EU"s director general for regional policy, was yesterday quoted in the Libération newspaper as saying he saw little objection to France's plans for "tax-free" urban zones and for rural tax breaks because they were not sufficient to distort competition by attracting investment from David Buchan, Paris

Bonn rejects any delays in Emu

The German government yesterday sought to dampen speculation that it was preparing for a delay in the start of the third and final stage of European economic and monetary union beyond the planned starting date of January 1, 1999.

Mr Klaus Kinkel, the foreign minister, said Germany stood fully behind its intention to enter the third stage on the agreed date and that nobody should count on a postponement. However, Mr Kinkel also underlined that there would be no softening of the Maastricht treaty convergence criteria to determine which countries should begin Emu.

Remarks earlier this week from Mr Wolfgang Schäuble, the leader of the parliamentary group of Chancellor Helmut Kohl's Christian Democratic Union, triggered speculation that Bonn

was losing its enthusiasm for Emu. Mr Kinkel's statement yesterday made clear that while Bonn still backed Emu strongly, it would put the criteria before the Emp timetable in the event of a conflict between the two

The decision on which member states would qualify for membership would be made as early as possible in 1998 on the strength of economic data relating to 1997, the German Peter Norman, Bonn Beyond the catcalls, Page 10

Chechens protest as tension rises Thousands of Chechen separatists, waving green Islamic flags, staged a protest yesterday in their capital, Grozny, as tensions

again rose in the breakaway Caucasus region. Defying Russian calls to disperse, the protestors gathered outside the presidential palace in the centre of the devastated city to demand that all of Moscow's federal forces leave Chechnya. Russian officers warned they would fire on the crowds if separatist fighters infiltrated the demonstrations to stage attacks on federal troops.

There will be no other way out of this situation. We will decisively shoot to kill," a senior Russian commander told the Interfax news agency.

Further bloodshed in the troubled region could derail a possible peace deal which President Boris Yeltsin may unveil today following a meeting of the influential Security Council. Russian newspapers have speculated that Mr Yeltsin may be prepared to cede a large measure of autonomy to Chechnya in an attempt to stop the fighting that has ravaged the region for the past 14 months.

But several Chechen leaders have already said they would settle for nothing less than full independence, an option which appears unacceptable to Moscow. John Thornhill, Moscow

Strikes resume in Sabena dispute Workers at Sabena, the Belgian national airline, went on a

one-day strike yesterday, shutting down the carrier's flights to Sabena said it "regretted" the action which it described as a

"slap in the face for passengers and an attack on the commercial funds of the company". Other airlines were able to operate flights – but with some delays as the strike also affected baggage handling.

Sabena has already suffered a number of one-day strikes over management plans to freeze wages, raise working hours and bring in more staff flexibility. The airline says the steps are necessary to spur growth and

in the long run create jobs for the airline, which is 49.5 per cent owned by Swissair. Negotiations between the two sides broke down on Friday

after the unions accused Sabena of not honouring conditions agreed for the resumption of talks in January.

The action began late last year after a bitter dispute between unions and management following Sabena's decision to scrap collective wage agreements as part of a plan to make

the airline profitable. Sabena had a BFr1.2bn (\$39m) consolidated loss in 1994. Reuter, Brussels Turks blame Greece over talks

Turkish officials yesterday blamed Greece for sabotaging a planned mediation mission to Ankara and Athens by Mr Richard Holbrooke, the US envoy, following last week's shows of force by both countries in the Aegean. Mr Omer Akbel, the foreign ministry spokesman, said: "We

were ready to receive him and we regret that he cannot come. We are sorry Greece has rejected him." Mr Costas Simitis, the newly-installed Greek prime minister

who was criticised for his handling of the crisis, cancelled meetings with Mr Holbrooke claiming they did not fit in with Although the US embassy in Ankara says Mr Holbrooke's

visit was postponed, not cancelled, no revised date has been John Barham, A ara

ECONOMIC WATCH

Greek inflation

Greek inflation edges up again

Annual % change in CPI ونيسيسيسيله 1994 95 96

0.1 per cent from December. with annual inflation running at 8.4 per cent, the National Statistical Service said yesterday. Over the same period last year, the CPI dropped 0.4 per cent. Inflation in December was 8.1 per cent, and last January it was 11.1 per cent. The smaller CPI drop this year was attributed to a 1.6 per cent rise in the price of foodstuffs and a 2.2 per cent increase in the cost of alcoholic beverages and cigarettes through higher direct taxes. Telephone, fuel

Greece's consumer price

index for January was down

and insurance rates and housing rents also were up. However, clothing prices were down because of winter sales, the service said. Last April the inflation rate dropped below 10 per cent for the first time since 1972, hitting 9.9 per cent. Greece's current account posted a deficit of \$551m (£357.7m) in October. up from \$296m in September, the Bank of Greece said Agencies, Athens

Austria's wholesale price index in January was down a preliminary 0.4 per cent on the year, against a fall of 2.5 per cent in December.

JESTER UPSETS COURT OF BORIS NIKOLAEVICH

By Chrystia Freeland in Moscow

Russian officials yesterday condemned Russian President Boris Yeltsin's former press secretary for revealing a compromising glimpse of life in the Kremlin in a forthcoming book.

"This is a violation of moral and professional rules and norms," Mr Grigory Karasin, a foreign ministry spokesman, said in a flerce attack on Mr Viacheslav Kostikov, who was sacked by Mr Yeltsin in late 1994.

Mr Kostikov, now Russia's ambassador to the Vatican, has written a vivid account of his two-and-a-half years behind the high red walls of the Kremlin. Tentatively titled "Parting with

the President", the book has not yet been published, but excerpts in a Russian weekly depict Mr Yeltsin as an ageing autocrat surrounded by sycophantic and scheming aides.

Mr Kostikov's alleged breach of diplomatic etiquette looks tame in comparison with the Machiavellian habits of Mr Yeltsin's closest counsellors. According to Mr Kostikov, the most powerful politicians in Russia routinely assume their offices are bugged and treat the president more like a feudal lord than an elected leader. "All my telephones were tapped," Mr Kostikov writes. "All the president's aides assumed they were being monitored and if we had anything to say to each other which we did not want the Kremlin's big ears to hear, we just exchanged notes, which we later destroved.'

To lighten the paranois, and mock the hardline aides believed to be responsible for the wire-tapping, Mr Kostikov describes an occasion when he and some of the president's liberal aides, after a few shots of vodka, impersonated the Kremlin's two leading hawks - General Alexander Korzhakov, Mr Yeltsin's chief bodyguard and confidant, and General Mikhail Barsukov, then a Kremlin security boss, but now head of the Federal Counter-Intelligence Service. "We proposed funny toasts in their names, You can just imagine what the poor workers went through who had to figure out the tape," Mr Kostikov writes. Mr Kostikov avoids directly attacking Mr Yeltsin, but his melancholy portrait of his former boss is likely to contribute to the mounting disillusionment of Russian democrats with the

fact, made Yeltsin Yeltsin."

tikov writes. "Sometimes I think about

inland aims to plug booze tax drain

By Christopher Brown-Humes in Stockholm and Reuter in Helsinki

Finland, home to some of the world's most expensive alcohol, is planning to clamp down on duty-free imports from Russia and the Baltic states because it says it is losing too much in tax revenue.

The health ministry estimates that "alcohol tourism"

costs Finland around FM1bn (\$220m) a year in lost taxes because the cross-border booze trade has surged since dutyfree limits were relaxed after Finland joined the European Union in January 1995.

The ministry is targeting two flourishing trades in particular - alcohol bought in Russia, and the "booze cruises" between Finland and Estonia

that have become popular

Controversially, the monopoly survived Finland's entry to the EU but its sales flagged in 1995, partly because of the impact of duty-free purchases. wants to lower to two litres the

The government says it

diallenging, rewarding, and exciting experience awaits you at the Harvard University Summer School. Summer you at the marvaru university Julium School students have access to Harvard's distinguished faculty, well-equipped labs, exceptional museums, and the largest university library system in the world. Now in its 125th year, America's oldest academic summer session offers several hundred liberal arts courses including drama, writing, economics, computer science, Ukrainian studies, English for non-native speakers, and a college-level program for secondary school juniors and seniors. Historic Cambridge, Massachusetts, located on the Charles River, is considered the ultimate college town with many bookstores, music stores, and restaurants. Metropolitan Boston is minutes away. We invite you to learn more about our programs. Eight-week Summer School session: June 24-August 16, 1996.

To request Harvard Summer School publications, call 617-495-0519, send e-mail to summer@hudce.harvard.edu (give code #142), or return coupon below. Catalogue available on the interact at http:// www.barvard.edu after February 15. Information: 617-495-4024.

O Harvard Summer School catalogue for college-age students and older □ Secondary School program catalogue for high school students who have completed their junior or senior year

constitute for English Language Program
brockure/application



since Estonia gained indepen- sengers a year take the threedence in 1991.

There have been reports of Finns crossing to Russia 15 times a day just to bring back their maximum allowance of 15 litres of beer and one litre of spirits each time. For some of the unemployed, who make up 17 per cent of the workforce, it has been a valuable saving or useful source of income. More than 2m Finnish pas-

hour ferry or 90-minute hydrofoil journey to Tallinn, the Estonian capital, combining sightseeing with a chance for some very cheap shopping. They can hardly be blamed

for their enthusiasm. Finns have to pay some of the world's highest prices because of the control exercised by Alko, the state-owned retail

current 15-litre allowance on beers imported after "short trips" to non-European Union countries, and introduce a new time limit defining a short

Serbs break off contacts over detention of senior officers

Bosnia war crimes row deepens

By Harriet Martin in Sarajevo

The Bosnian Serbs yesterday suspended contact with the Sarajevo government following the arrest by Bosnian police of eight Serbs on suspicion of war crimes. It was the first significant

setback in the Bosnian peace

THE FINANCIAL TIMES
Published by The Financial Times (Europe)
GmbH, Nibelungenpiatz 3, 60318 Frankint am Main, Germany, Telephone ++49
69 156 850, Fax ++49 69 596 4481. Represented in Frankfurt by J. Walter Brand,
Wilbelm J. Brüssel, Colin A. Kennard as
Geschäftsführer and in London by David
C.M. Bell, Chairman, and Alan C. Miller,
Deputy Chairman. Shareholders of the
Financial Times (Europe) GmbH ser. The Deputy Chairman, Shareholders of the Financial Times (Europe) GmbH are: The Financial Times (Europe) Ltd. London and F.T. (Germany Advertising) Ltd. London. Shareholder of the above mentioned two companies is: The Financial Times Limited. Number One Southwark Bridge, London SEI 9HL.

GERMANY:
Responsible for Advertising: Colin A. Kennard. Printer: Hürriyet International Grabbi, Admiral-Rosendahl-Strasse 3a, 63263 Ncu-lsenburg ISSN 0174 7363.
Responsible Editor: Richard Lambert, eto The Financial Times Limited, Number One Southwark Bridge, London SEI 9HL.

FRANCE: FRANCE: Publishing Director: P. Maraviglia, 42 Rue La Boétie. 75008 PARIS. Telephone (01)

S376 8254, Fax (01) 5376 8253. Printer: SA. Nord Eckir, 15/21 Rue de Caire, F-99100 Roubaix Cedex I. Editor: Richard Lambert. ISSN 1148-2753. Commission Parttaire No 67808D. SWEDEN: Responsible Publisher: Hugh Carnegy 468 618 6088. Printer: AB Kvällstidningen Expressen. PO Box 6007, S-550 06.

Jönköping.

C The Financial Times Limited 1996.
Editor: Richard Lambert,
do The Financial Times Limited, Number
One Southwark Bridge, London SE1 9HL.
R

cers, General Djordje Djukic and Colonei Aleksa Krsmanovic, are among eight prisoners the Bosnian government has admitted detaining, although the Serb authorities claim 11 are missing. Mr Carl Bildt, international civilian co-ordinator in Bosnia, expressed concern over the suspension of contact and

process. Two senior Serb offi-

hoped the issue would be cleared up quickly. A Serb spokesman said: "We have decided to stop negotia-tions and not to go to the Moslem part any longer until we get the Serbs released, He demanded that future meetings be held on neutral

ground

The Bosnian government said yesterday it would hold the men until the International War Crimes Tribunal in The Hague had examined the evidence against them. None are among the 47 Serbs already indicted by the tribunal, but government officials are confident they have evidence to implicate at least five of the detained men in war crimes committed around

Sarajevo and in eastern Bosnia. The government has promised to release the men if the tribunal does not find a case against them. Mr Mirza Hajric, a Bosnian government official, said: "If the decision of The Hague representative is that time raised a serious question



Bakir Alispahic speaking about the detained Serbs

released then the Bosnian government will respect that

The Bosnian government has frequently linked the issue of prisoner releases and war crimes, claiming that the Serbs have had so few prisoners to release because of their policy of killing people rather than holding them captive.

The government remains defiant about its provocative action which has for the first these persons should be over the future success of the Bosnian government had agreed to abide by the decision of the tribunal, set up by the Security Council in 1993, as to whether there was enough evidence to indict the two senior officers. But Bosnian security service chief, Mr Bakir Alispahic,

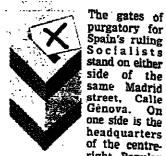
declined to repeat such an assurance at a news conference in Sarajevo yesterday. "The future of these people will be in the hands of both the judicial authorities of Bosmia-Herzegovina and investigators of the International War Crimes Tribunal," he said. ■ Robert Chote adds: Mr Hasan Muratovic, the Bosnian prime minister, yesterday predicted that his country could be granted full membership of the World Bank by early March, giving it access to fresh loans to help with economic reconstruction. Mr Muratovic told the World

Economic Forum in Davos that speed was of the essence in mobilising the \$5.1bn threeyear reconstruction package for Bosnia proposed by the World Bank and the European "We haven't received a sin-

gle dollar yet," Mr Muratovic said. "That's why we expect understanding and quick support." But the proposed programme would barely scratch the surface of the \$45bn worth of physical damage done to Bosnia during the war.

David White describes the 'dirty war' dominating Spain's election campaign

Waves of sleaze set to drown González



The series of first the se

out of the last of

Time Childeline

etter insemma iv Judie to day a

ba (Sobri in Europe)

CECTUTE MA PAR

rior general in the services th

econsape ress

Level Buches in

lays in Em

napi, to carried

delas to the statistic

of James in

T. SSM Gertrany and

hard stage in the ar-

a Dischangen

rat Grate Round to a

Let ledds changed

Wolfgang schanke

Lance per neine fa

To the manufacture and the

See clear tool where

in the chiefs being

and termination than

. es Voltag gazhi in

34 Passible in Reng

; tension rise

Von green kangle

ويوم وتشربا سارا

in protesting start

1000

ಾರ್ಟ್ ೧೯೫೩

Device Care a

The Germanian

the structure first

A.E. . TENET.

5 (0.00), 40 984. Pero Velserasi

TOTAL SHIPLE

in the Taker

九少数 海经链路

including said these

gentlikeline ill 0520

iabena disp THE RESERVE TO

o a to- cartering 设度 1912、2.2.2.2.2.2**250**000。

at attacket of in someth

T. 1. 7 (4) (T. 4-12) STEE and the second

Section of the English

The gradual

S. Principal Williams

3.00 mg

ce over talk

الله ويتوسيه الله والأحداث الله المساورة ا المساورة ال

-- <u>Saddinara</u>

A CONTRACTOR OF STREET

The second process and the second process and

And Markey

A Section 1

iges up again

er of the first of the second

unit to the to China

7-2745

The L

ua Eme

SPANISH

same Madrid street, Calle Génova. On one side is the headquarters of the centreright Popular ELECTIONS all the polls March 3 say is heading for its first

general election victory on March 3. On the other is the National Court building, source of the greatest damage to the Socialists' once clean image.

A growing climate of scandal has culminated in charges against Mr José Barrionnevo, former interior minister and still a candidate for re-election to parliament. The charges, over "dirty war" activities against Basque terrorists. destroyed any hopes the Socialists might have had of a judicial truce during the election campaign.

For the last year, Spanish politics have increasingly been overshadowed by the case of the Anti-Terrorist Liberation Groups (Gal), active in the mid-1980s. Mr Felipe González, prime minister, has always denied that his government backed or condoned them. His problem is that most Spaniards

do not believe him. The case caps a list of others involving former subordinates. including cases of alleged illicit enrichment by Spain's first civilian Civil Guard chief and a former central bank governor. Separate proceedings against disgraced financiers Mr Mario Conde and Mr Javier de la Rosa do not touch the administration directly, but add to a general climate of sleaze.

According to a poll in La Vanguardia, the Barcelonabased newspaper, if the Socialists lose the election, 87 per cent of Spaniards believe "scandals and corruption" will be a prime reason.

Since last year the centre of political attention has moved from parliament to the courts. As in Italy, a new phenomenon has emerged in recent years: the "super-judge".

Investigating judges - often young, since they qualify by examination without needing practical legal experience - do not preside over trials but have How botched anti-terrorist operations could force PM to testify about government role in killings

Four Spanish policemen go to France on a secret mission to capture a terrorist suspect. But as they try to bundle him into a car they are nabbed by French police and taken in.

A few weeks later, another mission is launched to kidnap another terrorist suspect this time using mercenaries. They get back to the border but the frontier police (this is in the time of border controls) have not been tipped off. They try a second border post; same result. At the third attempt, they get through. Another car meets them and they all go to a hiding place in northern Spain. But they have got the wrong

It is decided to hold on to him, and a note is sent demanding that the French release the four Spanish policemen from custody. The policemen are allowed to return. After 10 days

in captivity, the bemased victim is released. This inglorious episode, the first action claimed in the name of the Anti-Terrorist Liberation groups (Gal), is related in Supreme Court Judge Eduardo Móner's charges against Mr José Barrionnevo, interior minister from

1982 to 1988. Curiously, the case has so far focused on the least serious of all the crimes attributed to the Gal, which include about 25

The initials Gal surfaced in late 1983, a year after the Socialists came to power. But they were preceded by other shadowy organisations including the Spanish-Basque Battalion and the Apostolic Anti-Communist Alliance. The same man whom the mercenaries were supposed to kidnap was the target of an unsuccessful car bomb attack two years earlier. Between 1978 and 1981 more than 20 people were killed in pparent anti-terrorist reprisals.

The question is whether the Gai were simply a continuation of these practices, with the connivance of local officials, or whether government figures actively promoted them. The charges, based on other defendants' testimony, attribute "executive functions" in the Gal to Mr Barrionuevo and Mr Rafael Vera, his former security chief. Whether Mr Felipe González himself is called in is something the judge has yet to decide.

inquiry, from start to finish, a task that in different systems like the UK's would be mostly done by the police.

They can have suspects detained or put on bail, issue search warrants or order telephones to be tapped. They can also declare secrecy, in which case lawvers are kept out unless their client has been charged. In most cases it is up to them whether to commit someone for trial.

If Italy has had Mr Antonio Di Pietro, Spain has Mr Balta-Garzón, the most famous and controversial in a profession which has never before enjoyed such stardom. Mr Garzón. 40. made his name in the 1980s as the scourge of drugtraffickers. He has a taste for good clothes and publicity. such as drug-busting stunts with television cameras in attendance.

For the last election in 1993, Mr González co-opted Mr Garzon to stand with him on the Socialist list for Madrid. The new deputy was put in charge of the government's anti-drug plan. But the following year. frustrated with his political career, he quit, saying he had been used as a "puppet" and accusing the government of

being passive on corruption.

Another judge who had also been brought into parliament, Mr Ventura Perez Mariño, took the same step a year ago after calling on Mr González to resign over the Gal.

- a move permitted by a law introduced by the Socialists themselves - and proceeded to reopen the Gal inquiry, thereby becoming the scourge of the government he had

Socialist leaders hinted at a "political operation" against them. Mr Barrionuevo and Mr Rafael Vera, former number two at the ministry, both tried to get him taken off the case. Last summer Mr Garzón handed the main case up to the Supreme Court to deal with the accusations made against senior politicians. But he is still burrowing away at the Gal affair, pursuing individual murder cases.

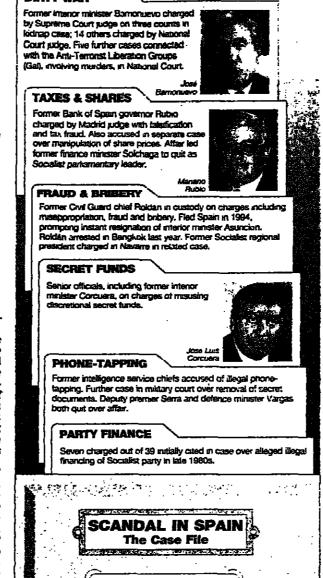
The reason for the high profile enjoyed by some judges lies largely in the court structure, says Mr Jaime Alonso, a crimi nal lawyer in Madrid. The National Court was created after General Franco's death, replacing the notorious Public Order Tribunal.

Its main job - paradoxical as it seems now - was to provide a central court for trying Basque terrorists, on the grounds that judges in the Basque country would come under too much pressure. Its responsibilities were later extended and now include business crimes. This means a lot of the biggest investigations pile up on the desks of just six

National Court judges.

The welter of cases is made worse by a peculiarity of criminal suit even if they are not directly affected. Some have become habitual criminal litigants, notably Mr José Maria Ruiz-Mateos, the businessman who is himself involved in a long tussle with the law since the government expropriated his tottering empire in 1983. Whether a case is followed up is at the judge's discretion. Many lawyers feel judges'

power and influence go too far. All the main political parties the Socialists, the PP and the Communist-led United Left talk of reforming the National Court's role. The joke at the PP offices is that people prefer to walk on that side of the street. rather than in front of the court, lest they are pulled in. See Editorial Comment



Poll violence fears fuelled by shooting

Lionel Barber in Brussels

Fears of a resurgence of Basque violence during the Spanish general election campaign became starkly real yesterday when the brother of a Socialist MP was murdered on a San Sebastian street.

cial co-operation between the The murder was assumed to be the work of Eta, the armed Basque separatist organisation. It was the first political killing in Spain since the government announced an early general election on March 3.

Mr Fernando Múgica, a well-known lawyer prominent in local Socialist politics, died in hospital after being shot in the head while returning from court with his son.

His brother, Mr Enrique Múgica, a former justice minister, heads the Socialist list of candidates for the Basque province of Guipuzcoa, a stronghold of radical Basque nationalism. While in the government, he was responsible for a controversial policy of dispersing Eta prison inmates in jails across the country.

In a similar attack a year ago, an Eta gunman killed the local leader of the centre-right Popular party, Mr Gregorio Ordonez, in a San Sebastian restaurant in the Basque coun-

It had been widely feared that Eta, reduced to a small hard core, would try to mount a spectacular operation during the election period.

The killing served to dramatise a diplomatic quarrel that

and Belgium over an extradition case. Madrid yesterday voiced "profound displeasure" at Belgium's decision to release a Spanish couple alleged to have collaborated with Eta, and said it was suspending "all aspects" of judi-

two countries. Belgium's ambassador in Madrid was summoned to the foreign ministry vesterday morning and his Spanish counterpart was called back from Belgium "to inform the government of the new situation". Diplomats said this was a step short of recalling an envoy for

"consultations". The couple, Mr Luis Moreno and Ms Raquel García, were released from custody after the Belgian Council of State blocked an extradition order agreed by the justice ministry two weeks ago. They are accused of having provided accommodation and transport for an Eta unit in the Bilbao

Spain has been seeking their return since 1993. The foreign ministry said the release was 'in open contradiction" with EU co-operation agreements. It urged the Belgian government to use all means to ensure the couple did not evade justice. Belgium said last night it

had no choice but to comply with the decision of the court. which had ruled that the Spanish case for extradition was not compatible with the definition of terrorist activities in the 1977 European Convention.

is to conduct the pre-trial back to his National Court job which anybody can bring a German economists argue against job alliance plan

Senior German economists yesterday urged the Bonn government and employers' organisations not to accept key ele-ments of the "alliance for jobs" proposed by the IG Metall trade union as a way of reducing unemployment.

The committee of academic economists which advises the economics ministry said industry should not promise to create a specific number of jobs in return for wage restraint by unions. Nor should the government fall in with union demands to abandon plans to cut unemployment pay and tighten the criteria for social security payments.

The alliance for jobs as put

forward by Mr Klaus Zwickel, head of IG Metall, envisages union acceptance of pay increases no higher than inflation next year in return for employers in the metalworking incomy creating 300,000 jobs and employing 30,000 long-term

row expected to show German unemployment above 4m, the plan has been broadly welcomed by the government while avoiding any commitment to change its policies in

line with the union's wishes.
In a report explaining how
best to reduce the 1.13m-strong ranks of Germany's long-term unemployed, the advisory committee said the union's offer of wage restraint and other conions could be an important contribution towards employ-ing those who had been out of work for more than a year. But employers' organisations should not commit their mem-

bers to job creation, and government action to reform Germany's social security system was essential.

The 30-strong academic committee, chaired by Mr Norbert Kloten, a former head of the government's council of economic advisers, said the

unemployed in a three-year long-term unemployed could period starting this year. long-term unemployed could hope for jobs if fundamental changes were made in Germany's system of collective

wage bargaining.
Pay settlements should take more account of local conditions and there should be a wider spread between wages for skilled and unskilled workers through reducing the cost of unskilled labour.

It was also essential to change the rules on social security payments to correct financial disincentives for the long-term unemployed accenting proper jobs. The report said the head of a five-person family living on social security would gain nothing from tak-ing a job which paid less than DM30,000 (£13,250) a year.

 Reuter adds: The government, state rail company and unions agreed a package yes-terday involving more flexibility on working hours, cuts in overtime and expanding

four hours journey time.

hours away.

Airport is just 45 minutes away and

of private and public investment means better roads, better roads lead to faster deliveries, faster deliveries mean a better service.

everything runs smoothly in

a new rapid transit rail system link will soon put Amsterdam, Brussels, Frankfurt, Paris and many other important European Centres even closer to Telford.

Closer to home is the fact that Telford's 800km of fast roads mean your home in the idyllic Shropshire countryside could be minutes from the ample parking provided in Telford's business areas.

If you're considering relocation, see Telford, then decide. It could put your company on the road to greater success.

Call freephone 0800 16 2000 or complete the coupon for further

To Telford Enquiry Desk, Jordan House West, Hali Court, Hall Park Way, Telford TF3 4NN. 0800 16 2000

Italian constitutional pact runs into opposition

By Robert Graham in Rome

The leader of Italy's Party of the Democratic Left (PDS) is facing a strong groundswell of protest from his supporters over last week's pact to back a new government committed to significant constitutional

The objection is embarrassing Mr Massimo D'Alema and is straining the centre-left coalition which the PDS dominates. If it continues to gain momentum, it could seriously limit Mr D'Alema's room for cenvre in perusing constitutional reform and put his leadership at risk.

One of the main "dissident" figures is Mr Stefano Rodota, a former chairman of the PDS parliamentary group and a legling party intellect. But

tion to the pact include Mr Alfiero Grandi, prominent on the left of the main CGIL union confederation, and Mr Sergio Garavini, veteran member of Reconstructed Communism, formed from the hardline of the old Italian

Communist party. Just as important are those who are reluctant to undermine Mr D'Alema directly but are nevertheless extremely critical of the deal with the rightwing coalition headed by former premier Silvio Berlusconi and Mr Gianfranco Fini, leader of the National Alliance. Both the latter and the open

dissidents are concerned that Mr D'Alema has agreed to introduce an ill-defined semipresidential system of government alien to the traditions of both the centre and left in

They mistrust Mr Berlusconi's motives in agreeing to implement constitutional reforms after refusing to co-operate on such changes for the past two years in parliament. Furthermore, they are extremely wary of Mr Fini's insistence on a strong directly elected chief executive which

smacks of authoritarianism. At a press conference yesterday the dissidents said they were not seeking to create a new party but rather form a unified front to oppose the introduction of the proposed semi-presidential system modelled on that of France. "Semipresidentialism does not provide stability." Mr Rodota

A system based more on a German-style chancellor as chief executive was more suitTelford is not only situated in

And no less than 15 UK ports are within 41/2 freight hours, with Liverpool Freeport, Britain's busiest general cargo port, only two

the heart of unspoilt Shropshire countryside, it is also at the very heart of Britain's communications

It is located near its own motorway, the M54, which gives it fast access to the national motorway system putting two thirds of the UK population within

Birmingham International

Grand jury probe on tobacco witness

By Richard Tomkins in New York

A grand jury in Washington is examining whether a public relations consultant acting for Britain's BAT Industries was involved in a campaign to intimidate Mr Jeffrey Wigand, the anti-tobacco lobby's star witness in two criminal investigations of the tobacco

The consultant is Mr John Scanlon, a partner of the New York public relations firm Abernathy MacGregor Scanlon. The investigation concerns his role in acting for Brown & Williamson Tobacco. BAT Industries' US arm and Mr Wigand's former employer.

Last month Brown & Williamson released a 500-page dossier to the Wall Street Journal entitled: The Misconduct

of Jeffrey S. Wigand Available in the Public Record. It combed through details of Mr Wigand's past life in an attempt to find episodes that might cast doubts on his credibility.

Among other things, the document sought to show that Mr Wigand had faced charges of shoplifting and wifebeating and that he had mis-stated his academic qualifications. The Journal, which checked the claims, said many of them were "backed by scant or contradictory evidence"

Mr Wigand is the most senior whistleblower to defect to the anti-tobacco lobby. He has made several allegations against Brown & Williamson - most recently last Sunday on the CBS News television programme 60 Minutes. These include a claim that the company

had misled Congress about the addictive qualities of nicotine.

Mr Wigand is a federal witness in a US justice department investigation as to whether tobacco executives perjured themselves in congressional testimony about tobacco addiction. He is also a witness in a separate investigation of whether the tobacco company Philip Morris violated securities law by misleading shareholders about smoking

Yesterday, Mr Scanlon was out of the US and could not be contacted for comment. But Brown & Williamson confirmed that he had been acting for it and that he had been issued with a

Mr Joe Helewicz, the company's vice-president for public affairs, said Mr Scanlon had been retained as "a facilitator" to arrange meetings of company executives and reporters interested in hearing Brown & Williamson's side of

Mr Helewicz also said Brown & Williamson was exercising its constitutional rights to free speech by attempting to refute Mr Wigand's "unsubstantiated or libellous comments and allegations against Brown & Williamson, our former chief executive officer and the company's employees.

"We find it very strange and indeed absurd that Brown & Williamson is being criticised or targeted in some way because we are responding publicly to unsubstantiated allegations by Jeffrey Wigand. We have a right to answer those charges," Mr Helewicz said.

Mr Steve Forbes, the wealthy magazine publisher (pictured above). has probably spent more money on radio and TV political commercials than all his rivals for the Republican presidential nomination combined, Jurek Martin reports from Washington.

The latest report from the

The FEC report said that, of Mr Dole's \$21m total spending last year, 82m went on fundraising. For Senator Phil Gramm of Texas, that took

Residents resist gas pipeline

By Imogen Mark in Santiago

Small landowners and neighbourhood groups in an area outside Santiago are threatening to obstruct work on a pipeline to bring natural gas from Argentina to the Chilean capital.

The Chilean environmental authorities last week gave GasAndes, a Canadian-Chilean consortium, the go-ahead to build the pipeline. The consortium, led by Nova Corp of Canada, announced it was to start work immediately on the

165km Chilean section. The project needs to be supplying gas to industrial cus-tomers by mid-1997, before new environmental restrictions come into force in the capital at the end of that year.

Despite reassurances from GasAndes, which has obtained rights to work on the affected land, opponents say they are worried about the potential dangers from the pipeline in an earthquake-prone area. Many are middle-class professionals who have secured much media exposure. This is transforming the issue into a test case for citizens' rights.

The opposition has proposed alternative routes for the pipeline away from populated areas. GasAndes says it is still studying one such proposal. It also has 30 days in which to appeal against a ruling on the siting of the decompression centre where the gas feeds into the distribution network. The government environmental commission has rejected a site in a residential area.

A second source of environmental concern over the arrival of natural gas is the problem of increased emissions of nitrogen oxide pollutants from a gas-fired power plant to be built in Santiago by Chilgener, a Chilean generator and part of the GasAndes consortium.

Nitrogen oxide combines in sunlight with hydrocarbon emissions to produce ozone, a toxic gas. Ozone levels in Santiago are already well above international norms, largely

per cent of the vote against 36

per cent for the new right-

wing alliance between Mr Netanyahu's Likud and the

ultra-nationalist Tsomet party.

Party whip who went to the

school to hear the announce-

ment of results, was euphoric.

"It couldn't have been more

tremendous," he said as stu-

dent-supporters carried him on

Israel radio carried news of

the results live amid specula-

tion that Mr Peres will next

week move the elections for-

uled date of October 29.

their shoulders.

Mr Raanan Cohen, Labour

AMERICAN NEWS DIGEST

Sara Lee to pay anti-trust fine

Chicago-based consumer products giant Sara Lee has agreed to pay a record \$3.1m fine for failing to notify US anti-trust authorities before an acquisition of assets from Britain's Reckitt & Colman in 1991, officials said yesterday. The US justice department filed the suit and proposed settlement in a federal court, claiming Sara Lee had violated anti-trust notification requirements.

At issue was Sara Lee's purchase of the shoe care products division of Reckitt & Coleman for some \$25.8m. The complaint said the contract had failed to provide a fair market value for the US assets. Because Sara Lee gave a low estimate of the US assets, it claimed it was not required to report the transaction,

saying the assets were worth less than the \$15m limit. At the time of the acquisition, Sara Lee and its Kiwi division had a 90 per cent share of the US shoe polish market and Reckitt and Colman's Griffin was one of the few remaining

The proposed settlement, involving the largest US civil fine for violating pre-merger notification requirements, remains to be approved by a judge.

Moody's ceiling on Peru rating

Moody's, the rating agency, has assigned a sovereign ceiling of B2 for ratings of foreign-currency bonds issued by Peru, placing it a notch below Argentina and Brazil on its ratings

Peru has not issued any bonds in the international bond market to date, but the sovereign ceiling denotes the highest rating any bonds issued by a Peruvian entity would receive. This is the first time Peru has been rated by one of the large international rating agencies.

Peru has "made enormous progress in economic and political stabilisation since 1990, but its external debt and debt servicing remain burdensome," the agency said.

Beginning this year, Peru faces a sharp rise in debt servicing costs - beyond the resumption of payments to banks - which will require another restructuring of its debt with bilateral lending institutions. Additional capital account vulnerability arises from rapidly growing short-term debt and the banking system's large holdings of dollar deposits, Moody's said.

The sustainability of financing for the current account deficit is also a concern, it says, "considering that, during the past few years it, has been covered to a large extent by privatisations and confidence sensitive capital inflows."

The country's main political weakness is the concentration of power in the hands of President Alberto Conner Middelmann, London

Caracas stock market surges

The Caracas stock exchange has risen to two-year highs, amid rumours of a possible devaluation of the bolivar.

The parallel exchange rate of Venezuela's currency established by the difference in price between Brady bonds traded in Caracas and New York, has slipped to 394 to the US

dollar. The official exchange rate is fixed at 290. The depreciation follows the implementation of stricter controls in Brady bond trading nearly two weeks ago. The regulations, which introduced a six-day resale ban on such bonds, led to a virtual collapse of the market in them. The trading volume has only recovered slightly since then.

The Caracas stock market's share index reached 2,315 points by noon yesterday. One analyst in Caracas said a similar rise in share prices had occurred last September, three months before the government devalued the bolivar by some 40 per Raymond Colitt, Caracas

Budget deal within reach say Clinton and Dole

By Jurek Martin, US Editor, in Washington

President Bill Clinton and Senator Bob Dole insisted yesterday that a balanced budget agreement was within reach in the light of new policy propos-als agreed yesterday by the nation's governors.

In speeches to their annual conference in Washington, both specifically welcomed the governors' initiative on reform of Medicaid, the federal insurance programme covering about 37m poor and disabled citizens which has proved a big stumbling block in the budget negotiations between the administration and the Republican Congress.

A second initiative, on welfare reform, also appeared to go some way to meeting the administration's objections to bills passed by Congress, most obviously in its recommendation that the food stamp programme be preserved "in its current uncapped entitlement

The president called the recommendations, passed unanimously by the conference, "a huge step in the right direction" and the majority leader said they went "a long way" to breaking the impasse. But Mr Clinton was careful

to add that he still had prob-

or months Mr Yoav

farm on the Israeli-occu-

Tsur, who runs a wind

pied Golan Heights, played a

farcical political game with his rightwing neighbours. Every

day he put up a big blue and

white banner bearing a slogan

in favour of the government's

policy of returning the Heights to Syria in exchange for peace.

the sign down. Eventually he

put the banner inside a 22,000-

volt fenced compound. Some-one broke in and took it down.

"I left a note on the sign tell-

ing anyone who would try to

take it down not to kill them-

selves," he said. "They are

lone pro-peace voice on the

Golan. In the past three years

a committee claiming to repre-

sent the 14,000 Israeli settlers

living on the strategic wind-

swept plateau has mounted a

visible and successful nation-

wide campaign against the

government's policy of return-

ing the Heights to Syria in

They galvanised public opin-

ion, arguing that Israel could

exchange for full peace.

Mr Tsur has been almost a

At night, rightwingers pulled

lems with some of the details of the proposals, while Mr Dole said he could not predict

speedy action by the Congress. Several of the governors. both Republican and Democrat, also acknowledged that tough negotiations lay ahead with Congress over the details. Governor Roy Romer, the Democrat from Colorado and one of the authors of the report, emphasised it was more of a "framework" than a bill itself.

The Medicaid blueprint tries to split some of the ideological differences between Republicans and Democrats. It discards the word "entitlement" so offensive to conservatives and replaces it, in Mr Romer's words, with "the right kind of guarantees [of coverage] to the right kind of population". It allows individual states

rather than the federal government to define eligibility for the disabled, but subject to the approval of the federal government. Mr Clinton said he might have some problems with eligibility criteria. The report, while giving the states most financial control,

also envisages a fallback role for the government in the event of "unanticipated programme costs". The governors conceded and Mr Clinton duly noted -

that the proposal had been sub-

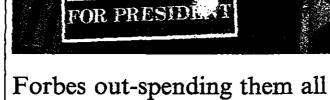
ject to no economic "scoring" by the Congressional Budget Office, now considered the leading arbiter in budgetary matters. That process could itself take weeks.

Mr Dole, in a familiar Washington political milieu, was more relaxed and humorous than he was in replying to the president's state of the union message or has been recently on the primary campaign stump. He said he had formed "a good relationship" with Mr Clinton over 50 hours of budget negotiations and called on the governors to help in "bridging differences without sacrificing principles".

Mr Clinton was equally complimentary to the majority leader. He thought the states and their communities should have a much greater say in managing the challenges presented by this "age of possibil-

Both men, in effect, seemed to see the governors as a lever to help bring their own right and left wings into line in pursuit of a balanced budget Governor Mike Leavitt, the

Republican from Nevada, said his colleagues had provided "a neutral ground" for debate on social safety net policies since their proposals were biparti-



Federal Election Commission, for the final quarter of last year, found Mr Forbes laying out \$9.7m for media time. Senator Bob Dole, Senate majority leader, spent \$1.8m and Mr Lamar Alexander, former Tennessee governor, \$1.75m.

The discrepancy may have widened since, given Mr Forbes's heavy advertising in the early primary election states of New Hampshire and Iowa. A count in Time magazine this week said a typical New Hampshire voter was seeing or hearing 34 Forbes commercials a week, more than double Mr Dole's exposure.

Mr Forbes's campaign, which has spent \$18m since he first considered running last spring, is largely self-financed. This not only frees cash for media buying but also leaves him outside the limits of state spending by candidates accepting federal matching funds.

INTERNATIONAL NEWS DIGEST

Iraq starts oil talks with UN

United Nations and Iraqi government officials opened talks in New York yesterday that could lead to a resumption of oil exports by Baghdad.

Both sides emphasised that the discussions were "technical" in nature and that only a political decision by their principals could ratify any agreement.

Iraq hitherto has refused to take up the Security Council's offer last April to allow the sale of up to \$2bn worth of oil over six months, mainly to pay for food and humanitarian needs. Mr Abdul Amir al Anhari, the Iraqi envoy, promised "full co-operation" with the UN team. He said he believed an agreement was possible if there were no outside pressure – an evident allusion to US and British insistence that Iraq must

conform strictly to the Security Council's "oil for food Ms Madeleine Albright, the US delegate, is president of the Council this month and is certain to follow the progress of the talks very closely.

Mr Anbari said, however, he did not think any further formal action by the Council would be necessary for the flow of Iraqi oil to resume. The prospect of Iraq's return to the international market, albeit under conditions strictly monitored by the UN, has already added a volatile element to Michael Littlejohns, New York

Tajik rebel warlords back off

Two rebellious warlords who had marched on the Tajikistan capital appeared yesterday to be honouring their agreement to disarm, but the government's talks with a broader opposition

The warlords agreed to end their insurgency in the Central Asian republic after President Emomali Rakhmonov. desperate to avoid a civil war, met their demands and fired

three top officials on Sunday. Forces of the two warlords have until midday today to lay down their heavy weapons and return to their barracks. The Tajik government declared an amnesty for the rebels. Dushanbe, the capital, was quiet yesterday, and residents resumed their normal routines while waiting anxiously for the

warlords to complete their retreat. The warlords, Mr Makhmud Khudoberdyev and Mr Ibodullo Boimatov, had helped bring Mr Rakhmonov to power but rebelled against corruption in his hardline communist

Mr Rakhmonov's government also has been battling Islamic rebels in the mountains of central Tajikistan. Up to 350 rebel fighters attacked government troops in the Tavildara region fighters attacked government troops in the law agency east of Dushanbe on Monday, the Interfax news agency AP, Dushanbe

US budget row hits Africa loans The African Development Bank has carried out long-promised

reforms but the US budget impasse is holding up the revival of loans to some of the world's poorest countries, the bank's president said yesterday. The bank has shed almost 20 per cent of its staff and introduced a new organisational structure, Mr Omar Kabbaj, the bank's president said. But he said a revival of its African Development Fund (ADF)

soft loans arm targeted at the bank's poorest members was held up by the budget impasse in the US, the bank's biggest non-African shareholder.

The ADF is the only source of bank credit for 39 of the institution's 53 African members. The US leads the bank's 24 non-regional shareholders with 5.8 per cent of voting shares. followed by Japan with 4.8 per cent. Reuter, Abidjan

more than \$4m out of \$19m. **NEWS: INTERNATIONAL**

PERES TRIUMPHS WITH EASE IN THE HIGH-SCHOOL ELECTION

Mr Shimon Peres the Israeli tion accurately predicted the parliamentary elections Mr ing victory yesterday against right-wing Likud leader Benjamin Netanyahu in a mock election at a high school often seen as a barometer of the national mood. Julian Ozanne reports from Jerusalem.

In a contest taken seriously by Israeli politicians and media Mr Peres took 61 per cent of the vote for prime minister compared to 39 per cent for Mr Netanyahu among 17 and 18 year-old students at Blich High School in a middleclass neighbourhood near Tel

Three times in the past 20 years the school's mock elec-

in 1977, 1984 and 1992 and Israeli media billed the poll as a local version of the New Hampshire primaries, the crucial early test in the US presidential race. Senior party leaders from

both right and left made personal appearances before the 780 eligible voters at the school during a week-long election campaign. Media com-

a new right-wing election pact on Monday was to influence the High School result.

mentators even went as far as saying yesterday that one rea-son Mr Netanyahu announced In the separate ballot for

Winds of change sweep the Golan Heights Julian Ozanne detects a swing away from the unwavering opposition to returning the land to Syria up the Golan. They will never invest. Plans for 1996 include a accept bringing Syria to the shores of Lake Tiberias, surrendering Mount Hermon and

> will be a huge public outcry and the government will fall." The Israeli residents on the Heights are not like the Jewish settlers in the West Bank. Not even the rightwing Golan residents believe the Heights are an intrinsic religious part of the biblical land of Israel. A majority of Golan residents went to live there to escape life in the towns and cities. They received big government grants, and when Israel

ing community. According to Mr Uri Dorman.

an economic development official, public and private invest-Shk550m (£117m) between vides 3,500 jobs. Big busi\$10m (£6.4m) abattoir and meat processing plant and an olive

leaving, whether the Syrians come or not." But its impossible to find a Golan settler who is willing to stay under Syrian sovereignty. even in the unlikely event

Syria would agree to such a move. For men such as Mr Tsur this is the most worrying aspect of peace; he has spent so much of his life developing the wind farm. He often spends days looking down from the ridge across the demilitarised border zone into Syria at a smaller Syrian wind farm 3km away. The Syrian wind farm rarely works and he wishes he could pick up the phone and call his Syrian colleague and offer some help.

"I love this land, this project and I love my home. If I had to choose I would stay forever but it's not a personal choice but a matter of the national interest, and peace is in the national interest. That means giving back the Golan to Syria," he said. "Would I stay under Syria? No thanks. They don't have a democracy and I wouldn't want to fall into the hands of the Syrian police. We will have to leave, regrettably,

have peace without giving up the Heights. They exploited wing in an effort to influence fears that giving back the the peace process and mitigate its worst effects. Golan, which provides a third of Israel's water needs, would "I really used to think I was be suicide. Banners with their a crazy guy sitting on top of slogan "Peace with the Golan" the hills shouting peace," said hung from apartment balco- Mr Tsur. "But Rabin's death made a lot of people here start and security guarantees while

new proposals for Israel-Syria peace negotiations in more than three hours of talks with President Hafez al-Assad. But a US official said the discussions were inconclusive, Reuter reports from Damascus. Mr Christopher said afterwards he had a "good meeting" with A senior US official cautioned against concluding that Mr Assad would not continue negotiations if Israel calls an early general election. Israeli-Syrian negotiations have shown progress in the past few months but there are concerns the process could be put on hold, or even backslide, in the heat of an Israeli election

Mr Warren Christopher, US secretary of state, yesterday made

US officials acknowledge early Israeli polls could affect peace talks with Syria but insist the two sides have made such

significant progress that an agreement in 1996 remains a very

real possibility.

A rightwing activist is jeered by Labour supporters among Blich High School students

Yitzhak Rabin, the prime minister, last November by a rightwing fanatic was a cathartic event for many Israelis, particularly those who were in favour of Mr Rabin's peace policles but who chose to keep silent in a deeply intolerant atmosphere.

Now a group of Golan settlers in favour of peace, including Mr Tsur, have established a forum and have begun to speak out against the right-

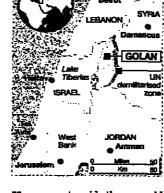
and Haifa and were stuck on car bumpers.

But the assassination of Mr

to speak out. They didn't want to be seen by the rest of the country as rightwing fanatics and they realised Rabin was a great man who paid with his life for reaching peace.

"Peace with the Golan is a lovely slogan but most people here realise it's nonsense. If we are really going to make peace with Syria we are going to have to pay the price and that means giving back the whole Golan which is Syrian land,"

The extent of the crack in the Golan settler movement. which only months ago was considered homogenous, was revealed in a poll last month. Forty-five per cent of Golan residents said they would vote yes in a referendum on full withdrawal in return for peace



53 per cent said they would vote against. It showed that 66 per cent would be prepared to move if they had government compensation. What was more surprising, support for the government's

Syria policy was stronger

among Golan residents than among the Israeli public. In a poll which included a sample of the entire Israeli adult population, 40 per cent backed full withdrawal in return for peace while 57 per cent opposed it. Forty per cent national support for full withdrawal marks a substantial change in Israeli opinion since Mr Rabin's death. The right wing accepts that there has been a change in public opinion but says the

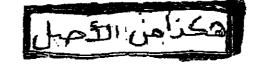
dering the Golan. "Israelis don't want to give

majority still opposes surren-

oil factory. the evacuation of Jewish peo-ple as part of the price for "The approach is business as usual," he said. "We work on the basis that we are never peace," said Mr Sami Bar Lev, mayor of Katzrin, the main town on the Heights. "There

annexed the Heights in 1981, they were told the Golan would be forever a part of Israel. They built spacious homes, put down roots, invested in businesses and developed a thriv-

ment in the heights totalled 1990-1995. The Golan economy. a mixture of agriculture and industry, produces annual income of Shk800m and pronesses, such as the Golan Heights Winery, a mineral water bottling plant, and a and go and start again somelarge dairy are continuing to where else in Israel.



NEWS: WORLD TRADE

WORLD TRADE NEWS DIGEST

Company of the light of the lig

ed southfully

The compens

7 (3)

Mari diam

in the fallent

Figure 1.2 and the

Tents Tentanto

eru rating

STATE OF DEATH OF STATE OF STA

The leading of the

desir ses the higher

City was fire tection

So whe of the large

Date of the

4.1

Clering: Gelts and deig

John To Gely Seattle

ali to ketake - which

er and bliateral

תווספיים ויינו

ery and the banking

many that, during the &

to the convenience

- Midde Tare Logic

No our Land State

in in Ettat bonne

Comment of the In

12 ដែល ហើនពេ**ក**អា

i v versan ağlı Tüb

orași 💷 Cezi 🌃

- 1-4 200 x 1 1 2 2 15 **1922**

a sarasmine

The second second

The Continues

min of all the

· it stranger

The second of the

Particle III

en ander month

ing state ther

March Said

1-17-18 20:00m

Per fixtens by

್ಟ್ <u>ಪ್ರಿಸ್ಥ</u>

t surges

 $\beta \approx 7.2794263$

: _: _-

US steps up banana fight

The US has returned to the offensive in its dispute with Brussels over the European Union's banana import regime by filing a second complaint at the World Trade Organisation. The new complaint has the support of Ecusdor, as well as Guatemala, Honduras and Mexico which backed the first complaint last September.

Both claim unfair discrimination by the EU in favouring banana imports from African, Caribbean and Pacific (ACP) nations at the expense of Latin American producers, in violation of international trade rules.

US officials said yesterday that, for procedural reasons, it was simpler to file another complaint than for Ecuador to join the one already on the books, which will be withdrawn. Under WTO rules, Washington can ask for a panel to rule on the matter if consultations fail to resolve the dispute within 60

Two panels set up under Gatt, the WTO's predecessor, condemned the EU's banana import system but Brussels has since secured a waiver from WTO rules for the Lome Convention which grants preferential trade access for ACP Frances Williams, Geneva

Regional groups prompt concern

The World Trade Organisation yesterday established a special committee on regional trade agreements with the aim of tightening its monitoring of free trade areas and customs unions. The committee will examine the consistency of regional trade groupings with international trade rules, taking over the work of 20 separate WTO working parties on individual regional pacts.

The committee will also look at the implications of proliferating regional arrangements for the multilateral system, reflecting concern about the collective impact of such arrangements, which increasingly have overlapping memberships but differing trading rules. Virtually all the WTO's 116 members belong to at least one regional grouping.

At its meeting yesterday the WTO's general council also agreed to set up a working party on membership terms for Kazakhstan and approved the draft protocol of accession for the United Arab Emirates, clearing the way for WTO

Puerto Rico aqueduct contract

A consortium of Thames Water of the UK and Dick Corporation of Pittsburgh, US, has won a contract to construct a \$356m aqueduct in northern Puerto Rico. The group will design, build and manage the 50 mile-long pipeline which will carry between 75m and 100m gallons per day by mid-1998. Dragos y Constructiones of Spain, one of the losing bidders, has filed a \$27m suit in Puerto Rico's superior court seeking an explanation of why it was not awarded the contract. Other bidders were Aguas de Puerto Rico, a consortium led by Lvonnaise des Eaux of France, and Grupo Superacueducto Metropolitano, led by ICA of Mexico. Camute James, Kingston

■ China Development Corp (CDC), a leading Taiwanese investment company controlled by the governing Kuomintang, plans to join a T\$20bn (US\$728m) venture between Taiwanese and foreign partners to build a semiconductor plant. Taiwanese companies will put up 60 per cent of the investment. Syntek Design Technology, a Taiwanese company, and CDC will invest 25 per cent and 10 per cent respectively. Foreign partners, including three US semiconductor design companies, will take up the remaining 40 per cent of the shares. Shareholdings will be finalised this month. When the plant is operational in early 1998, monthly production capacity will start at 15,000 eight-inch wafers per month and move up Laura Tuson, Taipe to 35,000 wafers per month.

■ Bombardier, the Canadian aerospace and equipment group, is opening a representative office in Beijing to promote its ommercial executive and utility aircraft. Bo delivered 30 aircraft to China and recently linked with Aviation Industries of China for future production

ABB Asea Brown Boveri, the electrical engineering group, has formed a joint venture in China to produce low-voltage industrial motors for the Chinese and international markets. The Shanghai venture, 55 per cent owned by ABB, will employ more than 1,200 people.

■ Offshore Systems International, a Vancouver electronic charting pioneer, is to supply C\$2m (US\$1.4m) of specialised circuit boards to Hughes Aircraft for upgrading the navigation systems for 800 US coastguard and navy ships. Robert Gibbens

Giant airliner contest kicks off

By Michael Skapinker in Singapore

oeing and Airbus yesterday signalled the start of a battle to build "super-jumbo" aircraft capable of carrying more than

500 passengers.

Mr Borge Boeskov, vice-president of Boeing's commercial aircraft group, said at the Asian Aerospace show that the US company expected to announce the start of work on the Boeing 747-600X by the end of the year. The aircraft would have a similar range to the Boeing 747-400 but with 100-135 more seats. The Boeing 747-400 carries up to 400 passengers.

Mr John Leahy, senior vice-president of Airbus, said the consortium would begin developing its 550-seat A3XX by the end of next year so that it could begin commercial service between 2001 and 2003.

The announcements come after the breakdown last year of talks between Boeing and the Europeans on building a joint Very Large Commercial Transport (VLCT), capable of carrying up to 800 passengers.

Boeing and the four companies which own Airbus – Aérospatiale of France, Daimler-Benz Aerospace of Germany, British Aerospace, and Casa of Spain - concluded the market was too small to justify the estimated \$15bn development cost. Only British Airways and Singapore Airlines had expressed an interest in the VLCT.

The advantage of the smaller projects announced yesterday is that development costs would be lower. Airbus says its aircraft will cost \$3bn to develop. Mr Boeskov declined to say how much the Boeing 747-600X would cost.

The sum will, however, be lower than the cost of building the A3XX because Boeing will base the aircraft on existing 747 technology. Airbus, which does not have an aircraft the size of the Boeing 747, will have to develop its aircraft from scratch. Mr Leahy says he believes Boeing will have to spend \$3.5bn on its aircraft although some aerospace analysts believe the cost could be as low as \$2bn.

Airbus was considering asking European governments to contribute, Mr Leahy added. Under a treaty concluded by US and the Europe Union in 1992, governments can contribute one-third of the development cost. European governments are unlikely to welcome the idea, but Mr Leahy believes Airbus will be able to demonstrate that they would receive a healthy return on the investment.

Airbus was also asking companies outside the consortium to participate in and contribute financially towards the project, Mr Leahy said

LEGAL NOTICES

COURT OF ROME

BANKRUPTCY SECTION Bankruptcy no. 52748 of immobiliare Francesca '81 s.r.l. At 12.30pm on 19.02.1996 the Official Receiver Dott.ssa De Virgiliis Is to sell small building in Montalcino (Siena, Italy). Base price Lit. 536,000,000 and Lit. 15,000,000 for the furniture. 25% deposit by 1pm on 16.02.1996. Receiver Tel. +39 774 608677/608765

APPOINTMENTS ADVERTISING

Appears in the UK edition every Wednesday & Thursday and in the International edition every Friday. For information on advertising in this section please call: Toby Finden-Crofts on +44 0171 873 3456

CONTRACTS & TENDERS

NATIONAL HEALTH SERVICE PENSION SCHEMES

ADDITIONAL VOLUNTARY CONTRIBUTIONS

In February 1991, the Department of Health, Scottish Office Pensions Agency and Department of Health and Social Services, Northern Ireland extended the range of AVC facilities available to members of the National Health Service pension schemes by introducing a money purchase AVC arrangement and additional options for benefits payable on death in service.

The Departments are reviewing the current arrangements and invite applications from institutions authorised to conduct AVC pensions business which would be interested in acting as AVC provider to the schemes. Only institutions providing AVC facilities as principals should apply. Proposals from agents or intermediaries will not be considered. An applicant may propose a partner in order to be able to bid for the range of AVC facilities being considered.

Total contributing membership of the three pension schemes is around one million. It is expected that the AVC provider will offer worthwhile concessions on management and other charges and favourable administrative arrangements including assistance with the monitoring of emerging benefits against Inland Revenue limits.

Interested organisations should ask for a more detailed specification from Mrs -Carol Tebbs, NHS Executive, Department of Health, 200/220 Broadway, Fleetwood, Lancs FY7 9LG Tel 01253 774501 and shold note that all applications must be sent to the same address by no later than 5 March 1996.

A formal notice will appear in the Official Journal of the European Community.

Tokyo pledges latest move to liberalise markets will start within two months

Asset-backed securities for Japan

By Gerard Baker in Tokyo

The Japanese government yesterday said it plans to open an asset-backed securities market within the next two months, in the latest move towards liberalising its financial markets.

a day of meetings in Tokyo between finance ministry officials and their US counter-parts. The two sides were reviewing progress made by the Japanese in opening up the country's markets under a financial services agreement reached with the US in Janu-

The announcement followed

ary 1995.
"I told the US officials that we will introduce an assetbacked securities market within this fiscal year [ending

Kuroda, a senior deputy director-general of the ministry's international finance bureau. It was the first time Japan had given the US a firm date for the introduction of such securi-

Asset-backed securities are traded instruments whose value is determined by the value of an underlying asset or

They have been widely used in other countries' financial markets, most often in the form of repackaged loans by banks and other financial institutions. They have proved effective in providing greater liquidity in markets.

They may be able to facilitate a quicker resolution of banks' bad loan problems if in

include property collateral. Banks are at present unable to dispose of the non-performing loan without disposing of the collateral, but if the loans can be repackaged as asset-backed securities, they could be

US officials welcomed the move, saying it would benefit the Japanese economy and was in the broader interests of freer markets. US investment banks have considerable experience in handling asset-backed securitles and are widely expected to benefit from the development of such a market in

The US government also praised the Japanese side for the impressive progress made on its other main commit-



Larry Summers: praised Japan for progress on commitments

ments in tments in the agree-

important moves towards deregulation of corporate pension funds, liberalisation of other domestic securities markets, and the easing of restrictions on cross-border capital "The Japanese government

These pledges included

has delivered an extensive number of legislative and regulatory changes required under the agreement to open up new opportunities in the financial sector," Mr Larry Summers, deputy US treasury secretary, in Washington, said.

However, he warned that the US still expected to see Japanese progress in other areas, most notably an increase in the current limited disclosure of financial information by

Alenia and Lockheed agree aircraft study

By John Simkins in Milan and Bernard Gray in London

Alenia, the Italian aerospace company, and Lockheed Martin of the US said yesterday they had agreed to study iointly a new medium-size military transport aircraft.

The aircraft, designated the C-27J, will be based on Alenia's existing G222 but would be upgraded to include new technology which Lockheed has included in its latest version of the Hercules transporter. The study will be small scale at first, but could be expanded to full development if potential customers express interest. Studies of the new aircraft

are part of an offset package to place work in Italy in return for an Italian order of 18 new Lockheed C-130J Hercules transporters. The Italian Senate has approved the \$1bn Hercules order, provided an offset package is agreed.

Development of the C-27J would take three years, and production could start in 1999 if launch customers could be found. The main user of the G222 is the Italian Air Force. The US Air Force and some less developed countries also operate small numbers. Italy also intends to partici-

pate in development of a European Future Large Aircraft, a direct competitor to the Hercules, along with the Airbus partners, France, Germany, Britain and Spain. The FLA will cost at least \$5bn to develop, and Italy has said it will order 45 aircraft to win a 20 per cent

The Italian order for C-130J aircraft may disturb its poten-tial FLA partners, whose commitment to the FLA project is also in question. Britain has already bought 25 C-130Js and France intends to order six to eight of the Lockheed aircraft to fill urgent requirements.

With European countries increasingly buying the C-130J, and budget pressures high, the FLA project risks being delayed. Only Germany has so far committed itself to substantial development spending on the FLA.

While the FLA will be larger and faster than the C-130J, it will also be much more expensive. Estimates suggest each aircraft might cost \$140m,

Airbus, which is running the FLA programme, is hoping to reduce these costs substan-tially by using civilian manufacturing methods for the military aircraft.

Alenia, which believes its experience in producing the G222 justifies it taking a leading role in the FLA, said yesterday that its priority in the 30 to 200 tons class of tactical airlift aircraft remained participation in the FLA programme. In its programme with Lock-

heed, Alenia is aiming at a budget version of the G222. The company, part of the statecontrolled Finmeccanica, predicts a potential market for the G222 and the upgraded C27J, outside Italy, of 400 aircraft until 2014.

Only orders from outside

Italy would count towards the offset package needed to satisfy the Italian government.

Manufacture of the C27J will be shared by Alenia, other Italian aerospace concerns and Lockheed Martin, which is based in Marietta, Georgia. Final assembly will take place at Alenia's military aircraft plant at Caselle, near Turin, and sub-systems manufactur-

ing will be carried out in the

The twin turboprop G222 is capable of hauling 8 tons over 1.000km, or five tons over 2,500km, at a cruising speed of 500km per hour. The C27J will be based on a version of the G222, known as C27 Spartan, developed in co-operation with Chrysler Technologies and Supplied to the US Airforce.



You may appreciate the beauty of the "Venus of Arles" and the "Venus de Milo", but are not quite aware of the attraction of a High Flyer and a Blue Chip.

cial terms to make the most of your assets. At UBS Private Banking we work with you as partners to achieve your investment aims. And that means we will involve you as much or as little

UBS Private Banking

You needn't spend time trying to understand complex finan- of knowing that some of the sharpest financial minds around will be managing your money. Backed up by a worldwide operation with capital resources in excess of US\$ 15 billion. Your search for fine sculptures may never cease. But your search for as you want. Whatever you decide you will have the security exceptional asset management could well be nearing its end.



Zurich, Geneva, Lugano, Luxembourg. London, New York, Hong Kong, Singapore UBS Private Banking is regulated in the UK by IMRO

Asian team to warn Europe on summit agenda

By Ted Bardacke in Bangkok

An Asian delegation arriving in Rome today for two days of preparatory talks on next month's summit between European and Asian leaders is carrying a stern warning.

The delegates say that raising the delicate and potentially embarrassing issues of human rights and democracy would damage the success of the meeting, designed mainly to foster trade and investment and promote regional stabil-

That message emerged from a recent meeting of Asian foreign ministers, who decided such issues were "not relevant" to ties between

the two regions.
"For the first dialogue to be successful, controversial and non-relevant issues should not be brought up," Mr Ali Alatas, Indonesian for-eign minister, said. "I can think of at least 10 issues to seriously embarrass the Europeans, but we're (Asean) - will be held in Bangkok not considering raising them. Such issues included human rights in Bosnia, Chechnya and Northern Ireland, Asian officials

The first-ever summit, to be attended by heads of state of the 15 members of the European Union and 10 Asian nations - Japan. China, and South Korea, plus the seven members of the Association of South-East Asian Nations

on March 1-2. Asian countries are interested in engaging Europe to balance their complicated security and trading relationship with the US, partly institutionalised under the Asia Pacific Economic Co-operation forum.

Europe would like to see increased trade and investment with the fast-growing Asian econotion with Asia on topics presented to the World Trade Organisation, as well as world telecoms liberalisation. Some European countries, notably Sweden and Portugal, are understood to be considering speaking out on human rights in China and East Timor. Other European leaders may raise questions on child ishour

Promotion of political dialogue, reinforcement of economic co-operation and the future of Asla-EU rela-tions could be discussed. The

has Asian officials worried European leaders could derail the process by arguing too strongly on points the Asians feel are cultural-specific rather than universal.

This is an opportunity for both sides to co-operate, not pick at each other's faults," a senior Thai foreign ministry official stated. Further summits could be held every few years, depending on a "friendly atmosphere", the official said.



Alatas: issues 'not relevant'

Hungry N Korea on short fuse

ashington's decision last week to provide help alleviate food shortages in North Korea marks a further shift in US attitudes towards Pyongyang, and a recognition of the possible dangers of a famine-induced destabilisation of the Korean peninsula.

The US announcement that its International Development Agency would provide \$2m (£1.2m) through the World Food Programme appears to have been made less for humanitarian reasons than out of real concern about a deteriorating economic and social environment in North Korea.

Pyongyang has appealed to the international community for huge food aid to help it deal with widespread shortages caused by devastating flooding last year in its main graingrowing regions. It says that 500,000 people are in immediate danger and several millions are being affected, including 2.1m children and 500,000 preg-

nant and nursing women. Worries about mass starvation and the threat this may pose to an unpredictable regime in Pyongyang, allied with alarm about a possible refugee exodus from North Korea, are overriding perceived short-term results that might accrue from the sudden collapse of the world's last Sta-

The US, which reached agreement with Pyongyang last year on assistance for a peaceful nuclear programme, has some 37.000 servicemen stationed on the Korean peninsula, and nuclear weapons in place. It has much to fear from a messy destabilisation.

According to Western officials in Beijing, nations with the most immediate interest in

TENDER NOTICE

UK GOVERNMENT

ECU TREASURY BILLS

For tender on 13 February 1996

1. The Bank of England announces the issue by Her

of ECU 1.000 mil

Government ECU Treasury Bills, for tender on a bid-yield basis on Tuesday, 13 February 1996. An additional ECU 50 million nominal of Bills will be allotted directly to the Bank of England for the account of the Exchange Equalisation Account.

2. The ECU 1,000 million of Bills to be issued by tender will be dated 15 February 1996 and will be in the following

3. All tenders must be made on the printed application forms available on request from the Bank of England. Completed application forms must be lodged, by hand, at the Bank of England, Customer Settlement Services (formerly Securities Office), Threadneedle Street, London not later than 10.30 a.m., London time, on Tuesday, 13 February 1996. Payment for Bills allotted will be due on Thursday, 15 February 1996.

4. Each tender at each yield for each maturity must be made on a separate application form for a minimum of ECU 500,000 nominal. Tenders above this minimum must be in multiples of ECU 100,000 nominal.

5. Tenders must be made on a yield basis (calculated on the basis of the actual number of days to maturity and a year of 360 days) rounded to two decimal places. Each application form must state the maturity date of the Bills for which application is made, the yield bid and the amount tendered for.

6. Notification will be despatched on the day of the

6. Notification will be despatched on the day of the tender to applicants whose tenders have been accepted in whole or in part. For applicants who have requested credit of Bills in global form to their account with ESO, Euroclear or CEDEL, Bills will be credited in the relevant systems against payment. For applicants who have requested definitive Bills, Bills will be available for collection at Customer Settlement Services, Bank of England after 1.30 p.m. on Thursday, 15 February 1996 provided cleared funds have been credited to the Bank of England's ECU Treasury Bills Account No. 59005516 with Lloyds Bank Pic, Bank Relations, St George's House, PO Box 787, 6-8 Eastcheap, London EC3M ILL. Definitive Bills will be available in amounts of ECU 10,000, ECU 50,000, ECU 100,000 and ECU 10,000,000 nominal.

7. Her Maiesty's Treasury reserves the right to reject any

7. Her Majesty's Treasury reserves the right to reject any or part of any tender.

8. The arrangements for the tender are set out in more detail in the Information Memorandum on the UK Government ECU Treasury Bill programme issued by the Bank of England on behalf of Her Majesty's Treasury on 28 March 1989, and in supplements to the Information Memorandum. All tenders will be subject to the provisions of the Information Memorandum (as supplemented) and to the provisions of this notice.

9. The ECU 50 million of Bills to be allotted directly to the Bank of England for the account of the Exchange Equalisation Account will be for maturity on 15 August 1996. These Bills may be made available through sale and repurchase transactions to the market makers listed in the Information Memorandum (as supplemented) in order to facilitate settlement.

10. Copies of the Information Memorandum (and supplements to it) may be obtained at the Bank of England. UK Government ECU Treasury Bills are issued under the Treasury Bills Act 1877, the National Loans Act 1968 and the Treasury Bills Regulations 1968 as amended.

* The asterisked maturity dates are ECU non-clearing days. As stated in the Information Memorandum issued on 28 March 1989, in the event that any maturity date specified for any issue of Bills is not a business day, payment will be made on the succeeding business day without any interest or other sums in respect of the delay in payment.

Bank of England 6 February 1996

maturities:
ECU 200 million for maturity on 14 March 1996
ECU 500 million for maturity on 16 May 1996
ECU 300 million for maturity on 15 August 1996
ECU 300 million for maturity on 15 August 1996

destabilisation in the region, writes Tony Walker

Korean stability, including the US, Japan and South Korea are considering three broad scenar-

Implosion, in which economic hardship and famine precipitated a violent leadership struggle causing the destabilisation of North Korea

sought to rally people on the brink of starvation by engaging in a reckless act of war against a common enemy -

■ Soft landing, in which presmany international issues make it difficult to predict which course Pyongyang might follow, but its parlous economic state renders the outlook bleak.

"I am not very optimistic about the long-term viability of the regime," said a Korea specialist among western officials in Beijing. "International relief efforts may alleviate the situa-tion in the short term, but it will not be easy for a rigid Stalinist system to evolve peacefully towards a more open soci-

versal view, however. Mr lan Davies, a consultant to United Pyongyang is bent on followually opening its economy to the outside world.

The UN is promoting the

PARANA

Generating Units Protection System Substation Que and 525 KV Transmi

on Shedding Schedule

Fex (65-41) 331-4155

→ Real-time quotes → Forex data

- Over 90,600 issues - News beadlines

- For more information on Signal, call

■ U.S. & int'l data => As low as \$9/day!

turned to military use.

TOKYO AND SEOUL MAY FUND FUEL OIL SUPPLIES

stopgap payment" until the US resolves

He was responding to a plea by Mr

Tokyo, who expressed fears the US budget dispute might not be resolved in time for

the disbursement of an estimated \$12m

(£8m) needed to fund the oil deliveries to

The issue is expected to be discussed

today between Japanese officials and Mr

CONTRACTS & TENDERS

COMPANHIA PARANAENSE DE ENERGIA - COPEL

SALTO CAXIAS HYDROELECTRIC POWER PLANT

IGUAÇU RIVER

SUPERVISION, CONTROL AND PROTECTION EQUIPMENT

CALL FOR BIDS

COMPANHIA PARAMAENSE DE ENERGIA - COPEL - informs that an international bidding is open for the design, manufacture, development, integration, factory tests, packaging transportation and delivery on job site, exection and commissioning supervision, field integration, documentation, training and warranty of the systems/equipment isstate below, for the Salto Cooks Hydroelectric Power Plant, located on the border of Capitalo Ledvidas Marques and Nova Prata dio Iguagu municipalises, in the State of Peranti - Digital Supervision and Control System

Conventional Back-up Control Panets

- Conventional Back-up Control Panets

This intermeluting Bildding, of the lowest price type, is open to individual companies and/or

parses from February 09, 1996, until the day before the documents delivery date, nst payment in Brazilian currency of RS 300,00 (three hundred Reals), at the following

consortia. The costs related to the Supply, object of this intermational Bidding, will be co

The Instructions to Budders and the Contract Documents will be available to the Int

Superintendância de Obras de Geração Rua Voluntárica de Pátria, 223 - 8º ander - Sala 604 80020-000 - Curléba, PR. Brazil Phone (55-41) 322-1212 - Ent. 5541

ission Line Protection System

INTERNATIONAL BIDDING C-304

the budget dispute, said Mr Ikeda.

Walter Mondale, US ambassador to

North Korea this month and next.

China, Russia and North Korea meet, as a new economic zone involving the neighbours and Mongolia. North Korea, according to Mr Davies, is the most enthusiastic of participants.
"The North Koreans pretend

nothing is happening, but the reality is that there are major economic changes taking place, but they don't call them changes," he says. Mr Davies is also sceptical

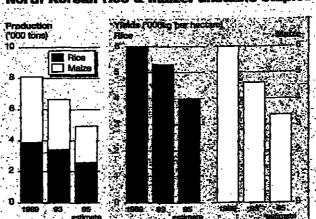
about the seriousness of the famine, pointing out that Pyongyang has belatedly discovered foreign aid in the same way that Beijing did in the early 1980s. But international relief agen-

cies, whose representatives have been on the ground in North Korea since last October, have no doubt the country is facing a full-blown crisis. They attribute this partly to the severe flooding of last July and August, and also to the

disastrous state of the coun-

COPEL.

North Korean rice & maize: unstable staples



try's state-dominated agriculture, reminiscent of problems caused by the collectivisation of Chinese agriculture in the 1960s and 1970s.

The UN's Food and Agriculture Organisation and World Food Programme, in a devastating report on North Korean agriculture completed last December, noted a catastrophic slide in output of staple rice and malze to 4.9m tonnes in 1995 from 8.1m tonnes in 1989,

mates a shortfall in production of 1.7m tonnes in 1995, half of which is attributable to farming problems and half to floods. Per capita availability of food grains had slid from 345kg in 1989 to 222kg in 1994. The figure will drop further

The FAO/WFP report esti-

North Korea, the report said, will need 6m tonnes of food grains to feed itself in 1996, but at this stage domestic production, imports and food aid would cover just 4.8m tonnes, leaving a shortfall of 1.2m tonnes. Clearly, additional foreign aid is required beyond the \$10m already promised

In the longer term, this assis tance will not solve North Korea's economic difficulties, caused by a stagnating economy, a demoralised workforce, lack of foreign exchange and investment, chronic fuel shortages and crumbling infrastructure. The present famine may be a warning of worse to come FAO|WFP Crop and Food Supply Assessment Missions to the Democratic People's Republic of Korea. December 1995. FAO, Via della Terme di Caracalla,

ASIA-PACIFIC NEWS DIGEST

China closer to freeing currency

China has issued new regulations aimed at further preparing the way for full convertibility of its currency. Under the rules approved by state council, or cabinet, rights of foreign investors to repatriate profits, dividends and interest have been codified. But China stopped short of lifting the requirement that foreign funded enterprises be subjected to an annual audit of their foreign exchange transactions to ensure they "balance" inflows and outflows, and meet other contractual obligations.

The International Monetary Fund has been pressing China to end its archaic "balancing" system for foreign exchange transactions, but the People's Bank of China fears that such a step would mean loss of control.

"We don't want to see chaos caused by capital inflows and outflows in huge amounts at a stage when controls are weak, said the state administration of exchange control. A western banker said the new regulations in effect formalised existing practices, while representing an "incremental" step towards full convertibility. The benchmark for foreign exchange transactions would be set according to rates in the Shanghei interbank market - established last month - under a pilot programme. The IMF believes that China can afford to be more adventurous in moving towards full

Australian tariff cuts 'to stay'

Australia's federal opposition yesterday pledged to stand by existing tariff reduction schedules if elected at the March 2 elections. In its industry policy, published yesterday, the Liberal-National coalition also said it would push for a second board on the Australian Stock Exchange, on which smaller, higher-risk companies could be listed, but would retain the 150 per cent tax concessions on research and development work.

The opposition coalition is currently ahead in the opinion polls, although the latest Newspoll, published yesterday, showed a slight narrowing of the gap. It gave the coalition a seven percentage point lead, down from 10 percentage points before campaigning began. Nikki Toit, Sydney Mr Paul Keating unveiled a health programme which would cost A\$1bn (US\$740m) in the first two years and more than A\$400m a year after that. It aimed to cut surgery delays, provide rebates for private health insurance fees and improve

Laiwan warns news services

care for the elderly.

Taiwan has warned real-time news services not to relay unconfirmed reports concerning Talwan-China relations before domestic media have had a chance to report them. The warning, by the country's Securities and Exchange Commission, comes after Taiwan's share prices moved sharply when Hong Kong newspapers reported this week that China planned a large-scale military exercise near Taiwan in the run up to next month's presidential election..

The SEC's regulator vesterday said he had urged the Tainei Stock Exchange to monitor investor information in order to stabilise share prices before the election. News agencies "should not lightly input unconfirmed reports relating to ross-straits relations before the domestic media have rep them, so as to prevent interfering in the normal operations of the market," the securities regulator said. It was not clear how the measures are to be enforced.

Call to reform India party funds

A leading overseas Indian businessman. Mr Srichand Hinduja, chairman of the Hinduja group, has called for a new system of state funding for Indian political parties to combat scandals such as those which have hit leading politicians in the past month. "No one has really got down to solving the problem at its root level: collection of party funds from the parallel economy," Mr Hinduja said. Funds could be raised for parties through a levy of corporate and individual taxpayers in India which would not widen the budget deficit. Non-resident Indians should also contribute \$10 a year. In return they should be given the right to vote. Peter Montagnon, Asia Editor The ruling Bangladesh Nationalist party, unveiling its manifesto yesterday for a general election next week, said it would not renew a 25-year friendship treaty with India if it won a second term in office.

'Comfort women' plea rejected

The Japanese government said yesterday it would reject. recommendations by a United Nations special investigator to compensate "comfort women" forced to provide sexual services to the Japanese army during the second world war. Mr Ryutaro Hashimoto, prime minister, said his government would take the necessary legal counter-measures to revoke the report, submitted to the UN Commission on Human Rights. While the report calls for Japan to apologise and compensate individual comfort women, the Japanese government believes that it has no obligation since it set up a compensation fund in July last year to raise money from individuals and Emiko Terazono, Tekyo

US aid seems to have been prompted by fears of

ios. These would involve:

and the mass outflow of refugees.

Explosion, in which a desperate regime in Pyongyang

namely South Korea. ent relief efforts played their part in helping North Korea muddle through its present dif-

ficulties, the country stabilised and continued its gradual opening to the outside world. North Korea's opaque sys-tem, its hermit-like leadership, and its weird responses on

Japan and South Korea should consider

Washington's budget crisis, Mr Yukibiko ikeda, Japan's foreign minister, said yesterday, William Dawkins reports from Tokyo and John Burton from Secul.

US officials worry that any supply

delays could provide North Korean

military hardliners with a pretext to

scrap the 1994 agreement under which Pyongyang agreed to dismantle its

spected nuclear weapons programme

Washington agreed to provide 50,000

tonnes of oil a year until North Korea can

assure its energy needs with two new

lion nomir

financing fuel oil deliveries to North

Korea threatened with delay by

This is by no means a uni-Nations Development Programme's Tumen River scheme, in which North Korea is a participant, believes ing China's example and grad-

light-water reactors, which cannot be Anthony Lake, US national security adviser, who is holding discussions in "We should co-operate among Japan, the US and South Korea and consider a Tokyo and Seoul on a comprehensive North Korean policy. realistic action if it is an Issue of a

South Korea has previously rejected suggestions that it should help finance the fuel oil deliveries because it has already promised to fund most of the \$4bn nuclear reactor project for North Korea. Meanwhile, the US is seeking other

possible financial donors for the North Korean oil deliveries. It has approached the European Union, but "Brussels is unlikely to make up its mind about approving funds in the near future," one European diplomat in Seoul said.

00100 Rome. Italu Suharto against 'irrelevant' levies

in Jakarta

Indonesia's President Suharto has ordered ministers to revoke unnecessary levies which have earned the country a reputation of a high-cost economy. His move follows a rare public protest against a tax on beer being charged and collected by a company owned

by Mr Suharto's grandson.

After meeting the president, Mr Abdul Latief, manpower minister, quoted Mr Suharto as saying the government "must encourage the revocation of irrelevant levies" to help increase the competitiveness of Indonesian goods.

It is the second time in less than a week that the president has indicated through a minister that he wants levies removed. Indonesian businesses have grumbled quietly for a long time that they are vulnerable to an array of official and semi-official levies imposed by middlemen on goods and services.

Indonesian brewers await confirmation that authorities on the island of Bali will scrap a tax on beer. Last month brewers stopped beer supplies

Rp400 (17 US cents) a bottle levy charged by Arbamass Multi Invesco, owned by Mr Ari Sigit, President Suharto's 25-year-old grandson. The Bali boycott was led by

the publicly listed Multi Bintang, which is 75 per cent owned by Heineken of the Netherlands, as well as Delta Jakarta, the Anker beer producer partly owned by San Miguel of the Philippines, and the unlisted brewer BaliHai. Mr Rene Hooft Graafland, president of Multi Bintang,

said he welcomed the statements as evidence that "Indonesia sticks to its principles of [economic] deregulation". The fact that foreign companies were involved in the brew-

ers which made the complaint may have helped the industry group to press its case. Indonesia has liberalised its foreign investment regulations in an effort to improve its competitiveness in the region.

In a rare condemnation of the presidential family's business activities, Indonesian newspapers joined the brewers' outcry against the tax, referring to levies of the sort as "blatant rent seeking".

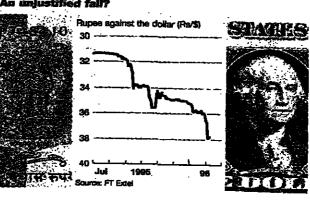
India acts to stall slide in rupee

By Mark Nicholson in New Delhi

Protestations from Indian officials that the rupee's recent slide was unjustified given India's economic fundamentals, helped steady the currency yesterday after Monday's sharp fall from Rs36.79 to Rs38.05 to the dollar. But dealers said the rupee would remain vulnerable without strong central bank interven-

The central bank has already committed an estimated \$1bn (£670m) in sporadic intervention this month as the dollar's strength, and domestic political jitters, helped fuel a run on the rupee.

An unjustified fall? JO. 30



breaching Rs38.35 during the day, rallying slightly after Mr Tejendra Khanna, commerce secretary, said the Reserve Bank of India should intervene "strongly" to push the rate closer to a "preferable" Rs34.50 to Rs35. This level, he said. reflected the commerce and finance ministries' assessment of the rate in line with India's trade flows and inflation posi-

The bank remained sidelined and instead convened an emergency meeting of bank treasury heads in Bombay to discuss measures to curb the rupee's fall from Rs35 since early January. The bankers are understood to have said that only concerted intervention would support the currency.
"There's no supply of dollars

governor, then issued a state-ment that the rupee's plunge was "out of line with the fun-damentals". He said the balance of payments position remained strong, with exports in the year to December up 24.17 per cent and imports up 29.27 per cent. However, the recent mini-cri-

sis has revealed India's thin forex market to be highly susceptible to relatively modest speculative sums, allied to the leads and lags of import and export flows. "If deals of \$25m can move your national sur-rency, then heaven help it," said one Bombay banker.

and there's panic on the importers side," said Mr Rav-need Choudhury, treasury

manager at Standard Char-tered in New Delhi. "Every

exporter is saying we'll only

remit when the rupee goes to

The bank has left the market

guessing, intervening only lightly on Monday, though Mr

C. Rangarajan, central bank

Escritório COPEL/São Paulo Alamada Santos, 1800 - 14º ander - Conj. 14-8 01418-200 - São Paulo - SP, Brasã Phone (55-11) 289-1431

At the time of acquisition of the Instructions to Bidders and the Contract Documents, the companies shall subrait a letter containing their full address (name, street, number, 2p code, state, belephonefast). The delivery of the Qualification Documents and the Price Bids will take place on the May 05, 1956, at 200 P.M. in the meeting room of COPEL's Superintendincia de Obras de Geração, in Curaba, 233 Voluntarios da Pátne Sireet. ground floor
The budding shell be ruled by Law n. 8666, of June 21, 1993, and by other conditions established in the instructions to Budden; and in the Contract Documents

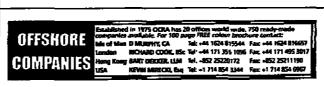
PERSONAL

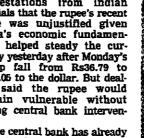
PUBLIC SPEAKING Training and speech writing by award

winning speaker. First lesson free. Tel: (01923 852288)

Signal

KNIGHT-RIDDER'S PUTURES MARKET DATAKIT FROM \$570 A hill year of <u>THEN MARKETS</u> but of Cay quada service 2 A hill year of <u>THEN MARKETS</u> but of Cay quada service 2 AND ROOM Service m. Me Skreiter Vets, 78 Rest Street, Landon ESTY 1HY. Tab +44 (8) 171 842 4053





The slide has been sharply

accelerated in the past few days by importers covering heavily against expected fur-ther falls. Exporting companies have also been delaying the remittance of foreign earnings. The rupee closed yesterday at Rs37.70 to the dollar after

FINANCIAL TIMES WEDNESDAY FEBRUARY 7 1996

rency Under the varies of largest large through the contract largest l

RUARY 7 1984

rises de subjected la commanda de controls de subjected la commanda de controls are subjected la control are subjected la control are subjected la controls are subjected la control are subjected la control are subj

capital information controls are not then controls are not the controls are not the controls are not the controls are not the control of the

considered to stanty chart and the March and the March chart and the March chart and the Control of the Control

S SETVICES

THE PROPERTY OF TH

dia party f

plea reject

n rupel



The new Mercedes E-class. It's equipped for all driving conditions.

There are elements inside the new Mercedes E-class that will help you cope with the elements outside.

We've developed ETS, a new electronic traction system. It means you can drive on surfaces as different as ice and farmed safely and simultaneously, with no loss of traction.

We have developed an optional rain sensitive windscreen wiper. A sensor adjusts the speed of the wiper automatically to the amount of rain falling. The harder it rains, the faster it works.

We've redesigned the headlights. They are not; however, just a different shape.

They are more powerful, better directed and have a longer beam.

We've improved the aerodynamics, too.

The new E-class is the most streamlined production saloon ever built. It holds the road much better in high winds and is also quieter at high speeds.

In actual fact, whatever the weather, we forecast that conditions for driving the new Mercedes E-class will always be fine.



Mercedes-Benz Engineered like no other car.

German states ban UK beef for BSE fear

Caroline Southey in Brussels and Alison Maitland in London

Three of Germany's federal states yesterday acted to halt imports of British beef because of fears of bovine spongiform encephalopathy or mad cow disease.

Following the expiry of regulations that permitted imports of UK beef from animals younger than 2½ years. North Rhine Westphalia and Bavaria announced that they would send back consignments of British beef while Rhineland Palatinate imposed a general ban on imports of UK beef and a

Defence

ministry

to cut back

Britain's Ministry of Defence

is to prune the number of lav-ish "official service resi-

dences" used by senior officers

from 75 to 44 in the wake of

the scandal over Air Chief

Marshai Sir Sandy Wilson's

£385.000 (\$581,350) refurbishment of his Haymes Garth offi-

However, most of the 31

unlucky residents of the

excluded houses, who were

informed of the change yester-

day, will remain where they

are and their homes will be

redesignated as ordinary

The MoD said that the main

savings from the changes

would come from reduced

staffing of the remaining offi-

cial houses. Currently staffing

the residences costs £5m a

year, but staff numbers are to

The changes are a response

to Sir Peter Cazalet's investi-

gation of the grand houses

used by senior officers for offi-

cial entertainment, commis-

sioned in the wake of the

Officers will also no longer

be paid a daily entertainment

allowance, which ranged up to

£20 a day for admirals and

cost the MoD 25m last year.

Instead will be forced to

account for entertainment

of the downgraded houses will

be forced to leave, the properties will no longer be renovated with "enhanced fixtures and fittings" when they fall due for redecoration.

Some residences will be sold.

Hong Kong, The Mount in Gib-

raltar and Field Marshal Vin-

Haymes Garth is also on the

market. Estimates suggest it

may fetch £450,000, about

£60,000 more than Sir Sandy

While few of the occupants

Haymes Garth fiasco.

expenses as they go.

be reduced from 234 to 108.

"married quarters"

residences

By Bernard Gray,

cial home.

Defence Correspondent

ban on slaughtering cattle from the UK and their offspring in the state. The action prompted an aggrieved esponse from the British embassy in Bonn. It said the bans breached German obligations to comply with European Union beef export rules and that

Britain would seek EU commission action to enforce these rules. Yesterday's bans on British beef imports came after the federal government in Bonn had refused to accept a unanimous call from the Bundesrat. the chamber of parliament representing Germany's federal states, for a halt to beef imports from Britain. The Bonn government argued that the regulations approved by the Bundesrat contravened EU law. The stand-off between the two sides resulted in the previous regulations expiring yesterday without any

The European Commission said yes-

terday that the German state's action appeared to be illegal. But, an official. said the Commission still had to examine the decision in detail. The official added that if the Commission stuck to the view that the action was illegal, "we will have no

choice but to take action" against "The Commission will ask Germany so the only course open to the Com-mission would be to challenge the German decision in the European Court of the official said.
"If member states no longer observe

EU rules we will not have a single market any more. The Commission is obliged to ensure EU states uphold EU laws," the official said.

The UK's ministry of agriculture said it was concerned the move was illegal under EU free trade rules. "We want the Commission to stamp it out

as quickly as possible."

Sir David Naish, president of the National Farmers' Union, yesterday

Eurosceptics, accusing them of under-mining Britain's negotiating position in Europe.

He said there were times when Britain's competitors must be "rubbing their hands with glee and downing another schnapps to the success of the Eurosceptics".

His outspoken remarks were supported by a union survey of over 400 members showing that 64 per cent thought the government's stance in Europe had been too sceptical and had reduced Britain's influence. Some 60 per cent believed that EU membership had benefited UK agriculture.

UK NEWS DIGEST

Labour weighs expansion of PM's authority

Labour is considering creating a powerful prime minister's office by merging the functions of Downing Street and the cabinet office if it forms the next government. The proposal is likely to arouse concern among many backbenchers and several members of the shadow cabinet who are already worried by the controllection of authority under Mr Tony Riefs the by the centralisation of authority under Mr Tony Blair, the

One proposal is to create an enlarged department of the prime minister, enabling him to keep in closer touch with

government departments and party headquarters.

Several senior Tory and Labour figures believe a further reinforcement of the prime minister's office is necessary. Prime Minister John Major currently has a staff of 93, small by the standards of other world leaders and in comparison with other UK departments. The cabinet office has expanded, largely by taking on the deregulation, competitiveness and public services portfolios. John Kampfner, Chief Political Correspondent

N Sea oil output set to peak

Britain's North Sea oil production is set to peak next year then decline by 5 per cent annually, it was forecast yesterday. But gas production is set to increase, with "very large" increases predicted for British and Norwegian fields.

The forecast was made by Mackay Consultants, in a new eight-country North Sea report covering the period to 1999.
Britain's forecast oil production of 133.4m tonnes this year is set to rise to 137.8m next year, then fall to 129.7m tonnes in 1998 and 116.5m tonnes the year after.

Norway is forecast to rise from 150.8m tonnes this year to 159.7m tonnes next year, 167.9m tonnes in 1998 and 173.1m

Norway overtook Britain in 1991 as the world's leading offshore oil producer. By 1999 it will account for 57 per cent of North Sea production compared with Britain's predicted share of 38 per cent, said the Inverness-based economic and manage-

Motorola to invest \$175m in HQ Motorola, the US electronics group, plans to invest £116m (\$175m) in a new European headquarters facility for its wire less telephone network infrastructire division on a green-field

site north of Swindon The division, which currently employs 1,400 people in Swindon and a further 750 elsewhere in Europe, is responsible for the design and manufacture of Motorola equipment used in the latest generation of digital networks based on the GSM

(global system for mobiles) pan-European standard. Motorola, which came to Swindon's Euroway Business Park in 1989 with 45 employees, said the new facility would not necessarily result in new jobs, but could evetually be expanded to provide up to 1m square feet of office space, and house up to an additional 700 employees over the next five years.

Construction is due to begin in November, subject to planning and other approvals, with completion scheduled for the

Schools computer deal rapped

A government decision to award a £2m (\$3.2m) contract for multimedia computers in Welsh schools exclusively to PC compatible computers, excluding both Acorn and Apple, provoked controversy yesterday.

The PC format has so far failed to reach the same level of

dominance in UK education as it has in other sectors, and this was the first time a government contract had been awarded exclusively to one supplier - UK company Research Machines. The National Council for Educational Technology said it had made the decision because of the wide range of software available in the format. Acorn said the decision "effectively denies schools their choice".

John Authers, Education Correspondent

Italian battery maker for Wales Italy's leading manufacturer of batteries for fork-lift trucks

and other materials handling equipment said yesterday it had made an initial £1m (\$1.51m) investment in a plant in south Wales in a move to develop its European market coverage. Fiamm, based in Montecchio Maggiore, near Vicenza in northern Italy, said it had bought the assets of Oakdale Batteries from the receivers and that it expected to employ about 50 people. Oakdale, which has a 25,000 sq ft factory at Crumlin, Gwent, had been a leading UK manufacturer of tractive batteries. Last December, its directors asked Barclays, its bankers, to appoint administrative receivers. About 60 people were made redundant.

Fiamm said it planned to invest £10m over the next four to five years. The company, which had a turnover of L700bn in 1995 and is the third largest European motive power battery maker, has plants in France, Austria and the US as well as in John Simkins, Milan and Roland Adburgham Italy.

The British government last night abandoned controversial plans to make directors of companies personally liable for the payment of the new "green" landfill tax.

Mr David Heathcote-Amory, the paymaster general said that he was sympathetic to critics of the liability clause which is contained in the finance bill. Treasury sources said that the government would support an amendment deleting the liability clause when it is debated on Thursday.

be liable if dishonesty is involved - as in the current value added tax provisions. It is understood that the government had been lobbied strongly over the scheme by the waste management business, the accountancy profession, and the Law Society. Critics said the clause undermined the tradition of limited liability.

Jim Kelly, Accountancy Correspondent.

Wheel supplier hails investment payback

By Peter Marsh in London

Bob Morgan has a ready answer for those who ask about the likely payback from two-year, £10m (\$15.1m) investment and a doubling of his training budget.

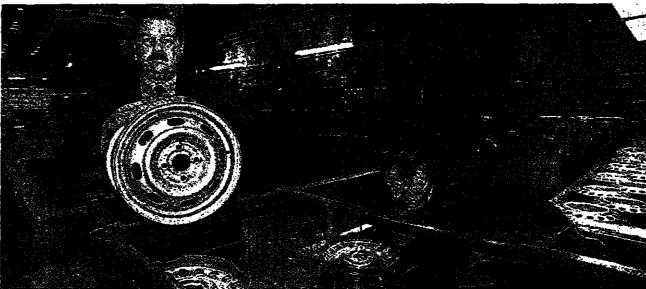
Mr Morgan, managing director of Duniop-Topy Wheels, Britain's biggest and Europe's fourth largest supplier of car wheels, points to steadily expanding output and a special quality commendation last month from General Motors, the world's biggest automotive

But just a few roads away in the Midlands city of Coventry, it is a different story for Clearplas, a similar-sized company which also makes parts for the vehicle industry.

Suter, the industrial company which owns Clearplas, said this week the business was likely to close with the possible loss of 440 jobs. This is in spite of £7m of capital spending during the past three years and a 50 per cent increase in annual sales over this period to some £23m.

The contrasting fortunes of the two companies illustrate the narrow line between success and failure in the vehicle parts industry - which in the UK has enjoyed a large increase in sales volumes on the back of big investment in car plants but where profits are under relentless pressure. Following the lead set by

Toyota, Nissan and Honda, the Japanese car companies with UK production bases, most of the big European-based automotive businesses monitor their suppliers virtually non-



Revolutionary: Bob Morgan displays a winning wheel. His company won a quality commendation from General Motors Pathers News Too

continual "cost down" programmes to get them to reduce product prices.

The suppliers know that unless they indicate a constant desire to improve quality and keep costs under control they may be dumped from the next set of new-model orders. The pressure by the car

groups is in turn driven by heavy competition in the vehicle market, which across Europe is showing signs of overcapacity as manufacturers braced for another disappointing year after a dismal 1995.

Explaining the reasons for Clearplas's likely closure, although selling the plant remains an option, Mr David Abell, Suter's chairman, said the plant was "not viable"

were having to spend millions of pounds just to stand still,"

In the past three years, Clearplas, which makes plastic trim parts mainly for Rover, part of the German BMW car group, and Ford, has taken on about 140 new employees to cope with increased orders. However, it is barely profit-

At Dunlop-Topy - owned 85 per cent by industrial group BTR and 15 per cent by Topy Industries of Japan, the country's biggest wheel maker the mood is more upbeat. The company is expected to turn out this year about 7m wheels, worth some £46m.

Mr Morgan is especially proud that his company is the US-derived technical standard called the QS-9,000 that certifies motor parts groups according to quality and reliability. Asked to justify the compa-

ny's £500,000 a year training programme - up from half this level two years ago and which seeks to encourage teamwork-ing and self-assessment among the 450-strong workforce - Mr Morgan points to a new order gained a few months ago from Land Rover, part of the Rover group, and which is likely to be worth some £2m a year.

He said he had heard from Land Rover that it was considering giving the contract - for 100,000 wheels a year for a remodelled version of its Discovery vehicles - to a competitor such as Lemmerz of Gergiven the moves by car compa-nies to push down costs. "We suppliers to qualify for a new French-based subsidiary of

would have got the order," said Mr Morgan who was installed as managing director at Dunlop-Topy 18 months ago from another part of BTR and after 30 years in the industry. Recent changes at Dunlop-

Sumitomo Rubber of Japan.

"Without the productivity

improvement that came with

the training, I don't think we

Topy - including investment to automate parts of the wheelmaking process and changes in top management - also appear to have had a positive impact on other customers, including Toyota and Nissan.

The lesson, according to Mr Phil Newport, engineering manager at Dunlop-Topy, is that "spending money alone is not what matters, it is what

Car sector pins sales hopes on tax cuts

By John Griffiths in London

The commandant's house in New UK car registrations in January were just 0.3 per cent above year-ago levels, leaving a "very disappointed" motor industry hoping that tax cuts due in April could coax back buyers.

cent's house at Nato in Brus-sels are all to go. The MoD confirmed on Monday that The 191.761 new cars registered last month, well below the level of two years ago, has set alarm bells ringing among the volume manufacturers. They may find it increasingly difficult to Wilson spent on the property. | carry out their pledges to restrict sup-

plies to the short-term rental market - heading the "top 10" list of best sellers. entire new car market.

Yesterday's statistics also showed a continuing rise in the market share 60.9 per cent of registrations in Janusame month last year.

Ford started the year with its market leadership securely in place, with a share of 21.8 per cent and three of its models, the Fiesta, Mondeo and Escort, to restrict rental supplies.

now suspected of undermining the now suspected of undermining the the past has absorbed nearly 500,000 the past has absorb vehicles a year. However they are bought at deeply discounted prices, and taken by imports. They accounted for are returned to the market as "nearlynew" cars after just a few months in ary, compared with 58.9 per cent in the such volumes that new car sales have

suffered. If demand fails to improve carmakers may have difficulty keeping production lines going unless they review pledges

The disappointing figures may affect The UK short-term rental market in talks between the industry and the UK government on scrapping the yearly registration plate prefix letter.

Parts of the industry had hoped to have a substitute system in place in time to scrap the sales bulge the prefix causes. However, Mr Neil Marshall, policy director of the Retail Motor Industry Federation, suggested vesterday that if demand remains subdued dealers will need the short-term boost to output it

CONTRACTS & TENDERS





COMPANHIA PARANAENSE DE ENERGIA - COPEL SALTO CAXIAS HYDROELECTRIC POWER PLANT IGUAÇU RIVER INTERNATIONAL BIDDING C-304 SUPERVISION, CONTROL AND PROTECTION EQUIPMENT

COMPANHIA PARANAENSE DE ENERGIA - COPEL - Informs that an intent COMPANHIA PARANAENSE DE ENERGIA - COPEL - informs that an international bodding is open for the design, manufacture, development, integration, factory tests, pedraging transportation and distivery on job site, arection and commissioning supervision, field integration, documentation, training and warranty of the systemalequipment lotted below, for the Seltic Cases Hydroelectric Power Plant, located on the border of Capitão Leónidas Marques and Nova Prata do Igueçu municipalities, in the State of Paraná.

- Dejata Supervision and Control System

- Convertional Back-up Control Printels

- Generating Units Protection System

- Substation Bus and \$25 KV Transmission Line Protection System

The instructions to Budders and the Contract Documents will be available to the interested companies from February 09, 1995, until the day before the documents delivery date, against payment in Brazilian currency of RS 300,00 (three hundred Reass), at the following additionate of the contract of the contract of the second currency of RS 300,00 (three hundred Reass), at the following Superintendância de Chras de Geração Rua Voluntários de Pátria, 233 - 5º andar - Seja 504 80020-000 - Curitiba, PR, Brazil Phone (55-41) 323-1212 - Ext. 5541 Fax (55-41) 331-4166

or Escritório COPEL/São Par Alemeda Santos, 1800 - 147 andar - Conj. 14-8 01418-200 - São Paulo - SP, Brazil Phone (55-11) 289-1431

At the brine of acquisition of the instructions to Backers and the Contract Documents, the compenses shall submit a letter containing their full address (name, street, number, 29 code, state, telephonetics; The detainer of the Qualification Documents and the Price Bids will take place on the May 09 1996, at 200 P.M., in the meeting room of COPEL's Superintendencia de Obras de Geração, in Cuntiba, 233 Voluntários da Pétria Street,

MPANHIA FARANAENSE DE ENERG

PERSONAL

PUBLIC SPEAKING

Training and speech writing by award winning speaker. First lesson free. Tel: (01923 852288)

Falling output leads to rate cut call

By Gillian Tett,

British factories cut production in December, raising fresh concern about the economy four years after it climbed out of

longer term trend for manufacturing growth at its weakest level since 1992. The fall took the City of Lon-

don by surprise and prompted speculation that Mr Kenneth Clarke, the chancellor, may respond to the weakness by cutting interest rates soon. Meanwhile, there were signs that the economic slowdown is

Jaguar, the luxury UK car-

was laying off workers at its Coventry plant for a week to shift stocks of unsold cars. Mr Kenneth Clarke is due to

hold his next monthly monetary meeting with Mr Eddie recession.

The decline in output left the onger term trend for manufactors.

George, governor of the Bank of England, today. Most City analysts think the two men are unlikely to reduce rates this month, after two successive cuts in December and January brought base rates down from 6.75 per cent to 6.25 per cent. In particular, Mr George recently indicated that he would be reluctant to sanction

a larger cut without fresh signs that inflation was easing. Nevertheless, the unexpected weakness of the manufacturing

maker owned by Ford, said it data left some City economists speculating that Mr Clarke may be tempted to act anyway. As Mr Michael Saunders, UK economist with the US invest-

ment bank Salomon Brothers

said: "The Chancellor has been

quite sensitive to weak growth numbers in the past - the weakness of manufacturing will keep up pressure for a fur-Overall manufacturing outbut was a seasonally adjusted 0.6 per cent lower in December than in November. On a three

monthly basis - a more reliable guide to the trend - output was 0.2 per cent lower in the last quarter of 1995 than the third quarter, but 0.4 per cent higher than the same

The weakness of manufac-turing fuelled fears in the City that factory output could fall further, as companies respond to their excess levels of stocks by reducing orders. Some economists hope any

dip will be temporary. However, other economists fear that the stocks overhang, coupled with the weakness in European markets, could lead to a more prolonged downturn. Meanwhile, the Treasury said yesterday it had not changed its forecast of 2.5 per cent manufacturing growth this year. Yesterday's fall in output was spread across most

of industry, but it was largest

Landfill tax liability lifted

The result of the amendment will be that directors will only

Decision expected on European channel rail link

steadily last year as Eurotunnel increased

By Charles Batchelor Transport Correspondent

London & Continental Railways, the favoured bidder for the £3bn (\$4.5bn) English Channel tunnel high speed rail link, is negotiating the final details of the package required to clinch the deal, rail industry managers close to the bid said vesterday.

Eurorail, the rival consor tium, has not been ruled out of the bidding, but L&C has been in exclusive negotiations for the past 10 days and is believed to be finalising financial commitments with its bankers and settling legal details. Sir George Young, the UK

Conservative MP for Graves-

next Monday. Although both bidders have been working on their bids for at least two years it is not transport secretary, is expected to give a date for the announcement of a decision, or at least a closer indication of when it can be expected, when he answers a Commons question from Mr Jacques Arnold,

tunnel, expects a 50 per cent increase to 580,000-600,000 in the number of trucks it carries through the tunnel this year over 1995. Mr Christian Zbylut, freight director, said yesterday, Charles Batchelor If one or more of the three ferry compa-

nies which operate between Dover, Fol-kestone and Calais decides to withdraw or reduce sailings then the increase for Eurotunnel could be even greater, he said. In 1995 it carried 391,000 trucks. The number of trucks carried rose ham, on the line of the route, port is keen to keep open the

Eurotunnel, operator of the Channel

unknown for deals to fall apart in the final days of negotia-tions, when the bankers and providers of equity and other finance see the final details of a proposal and have to make firm commitments.

The UK department of trans-

the frequency of its freight shuttles. The company's claimed share of the market for accompanied trucks rose to 48 per cent in January 1996 from 20 per cent a year Eurotunnel currently has the capacity to carry up to 3,900 trucks a day but this

will be increased by 7 per cent later this year when an additional 16 shuttle wagons are delivered. It will rise again at the end of 1998 when two complete new shuttle trains are supplied Eurotunnel expects to place the order

Eurorail's supporters acknowledged that the L&C bid gave a better deal to possibility that Eurorail could be called back into the bid negotiations to maintain presthe department of transport sure on L&C and achieve last in the short term but questioned the robustness of the Supporters of the L&C bid claimed that the financial financial arrangements needed to sustain the seven year proj-

> The L&C consortium consists of Mr Richard Branson's Virgin Group, the National Express coach company, UK

of Italy, which supplied the first shuttle trains and believes it can obtain them for less than half the price. The new trains will be of a simpler design and will also be cheaper to main-

tain. The order is due to be placed within the next few weeks. in January Eurotunnel's cross-Channel shuttle services carried more than twice

as many cars and trucks as in the same month a year ago, while the number of Eurostar high-speed trains rose more than

civil engineers Ove Arup and Bechtel, the US construction

nies. Trafalgar House and The link will the largest rail engineering project to be carried out this century. A decision on the 68 mile line, which will cut 30 minutes off journey times and link the Channel

group. The leading partners in

the Eurorail consortium are

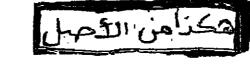
two UK construction compa-

tunnel entrance with St Pan with a different supplier to the one. Breda cras Station in north London, is expected within the next week or so. L&C is understood to have

gained an edge because of the experience of Virgin and National Express in operating ransport business whereas the Eurorail consortium does not have this expertise in-house. The problems experienced in the construction of the Chan-nel tunnel rail link, which in

its early years was managed by a consortium of construction groups, are also believed to have prejudiced ministers and the City against projects managed by contractors. But Eurorail's supporters

said that transport manage-ment skills could be bought in while having construction companies in the consortium would reduce the conflicts between client and builder which often arise on such large



nail down"

minute concessions.

arrangement for the bid were all in place, but backers of

Eurorail said there were still

important commitments "to

5- 5-26. CET 78-5

ी जाताता है। विकास

Contest Hamilton

The second

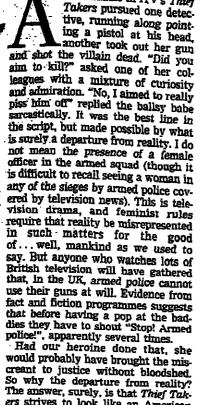
. ...



of paintings and drawings created of his immersion into Catalan so-called Blue Period. The display centres around Picasso's first exhibition, in the beer cellar Els Quatre Gats in February 1900. The exhibits come from the collections of the Museu Picasso, the Musée Picasso in Paris, the Metropolitan Museum in New York, the Neue Pinakothek in Munich and other museums; to Feb 11

■ BERLIN

Konzerthaus Tel: 49-30-203092100/01



s the haddie in ITV's Thief

would probably have brought the miscreant to justice without bloodshed. So why the departure from reality? The answer, surely, is that Thief Takers strives to look like an American series and in America all police officers are armed to the teeth and shoot on sight, with nothing so namby pamby as a warning. Presumably the broadcasters felt that British viewers were so used to watching slam-bang American series that they would be bored with a drama that reflected the way the British police really behave. So they set the series in London, with lots of stunning night-time chopper shots of Westway in place of the Manhattan skyline and then allowed everyone to look and act like Americans. There is even a black brother on the squad who goes around like B.A. Baracus out of The A-Team, complete with singlet metal jewellery, and attitude.

It does not work, of course. Early impressions from the pilot episode that Thief Takers might bring back some of the speed and excitement that have been missing from British police series since the disappearance of The Sweeney are proving over optimistic. The trappings are there - good locations, squealing tyres, baseball caps but the concept and the writing are not up to it. The episode described above opened with a splendid sequence showing a prison wall being breached with a bomb and the baddie walking free - but then it was all downhill. The characters, good and bad, are just not believable. Last week's episode seemed more concerned with the authenticity of its settings than the credibility of its plot or characters.

To watch Thief Takers and switch straight over to Channel 4 and watch NYPD Blue is to realise the absurdity of the traditional British claim about American television drama. The received wisdom is that the

walked to freedom,

Athol Fugard was

South Africa's

(white) liberal conscience, cer-

tainly to theatre-goers. Fugard's latest play, Valley Song, is playing to a (white) middle-aged liberal intelligen-

tsia at the Royal Court, direct

from New York, en route to

Fugard is directing himself

in his own play, appearing as

not one, but two characters:

the white Author and, wearing

a woollen hat, the coloured 76-

year-old Buks. Neither charac-

ter can come to terms with the

new South Africa as repre-

sented by Buks' 17-year-old grand-daughter, Veronica (Esmeralda Bihl). Both men

are obsessed with a handful of

pumpkin seeds, "a handful of

Sydney.



Television/Christopher Dunkley

US is top of the serial cops

Americans make expensive, fast moving action series which are, however, shallow, repetitive, and aimed at the undemanding. The British, meanwhile, supposedly turn out material which is cheaper and less dynamic but more profound and aimed at the demanding viewer. Naturally you can find examples to support both stereotypes. In their worst episodes Starsky And Hutch and Charlie's Angels were pretty dreadful, whereas Pride And Prejudice and the first run of Between The Lines were both marvellous. But to pretend that the generalisation holds up is ludicrous.

In the entire canon of British police series there is not a character as complicated and subtle as NYPD's Detective Sipowicz who is an alcoholic (though now on the wagon) with a terrible temper. Last week his wife became pregnant and although she asked him to keep quiet about it, he "confidentially" informed everyone in the building. When she found out and wearily said "Look, don't tell anyone

Theatre/Simon Reade

Fugard's 'Valley Song'

a good harvest (soil which both

men lasciviously liken to a

woman, and then sanctify it

with psalms). For Veronica, "a

girl can't make adventure and

romance out of pumpkin

seeds." Veronica is no Cinder-

She stands on her box peer-

ing over the fence at the white

lady's television. Thus she can

imagine when her grandfather was a soldier: "Like on TV,

with a gun". She sings (off key)

about a "railway bus" taking her away to Joburg. "When I

sing, I'm alive." For Buks, this "brings back memories of a

past I've been trying to forget".

Meanwhile, the Author has

been bleeding his liberal heart:

"Had my few thousand rand

really bought me ownership of

week's episode was virtually incomprehensible for those British viewers who do not realise that what Americans call the first floor of a building we call the ground. It involved a psychopath who killed men by standing on a milk crate and leaning through their bedroom windows on the first floor to stab them. The week before, the plot revolved around a former prison officer who, while working under cover for the District Attorney's office, tricked two detectives into dropping their guard so that they were shot. The subtlety and interplay of the vested interests involved made Thief

Takers look like Enid Blyton. Somewhat unhappily even The X Files is superior to most contemporary British serial drama in many ways. "Even" because this series is really little more than an up-to-date version of sword and sorcery, with agents Mulder and Scully wielding

else" Sipowicz replied helplessly "I the swords, and unhappily because so found in the real-life O.J. Simpson don't think I know anyone else". Last many people need so little encourage- trial and created Murder One, a ment to believe in superstitious twaddle, whether ancient or "new age".

> he X Files, which looks exactly like a serious detection series, lacking even a hint of the self ridicule in, say, The Avengers, adds considerable reinforcement to the belief, already widespread, that magic, and the supernatural generally, are on a par with science and rational thought. Though Scully is sceptical, Mulder goes with the flow and, as in last week's episode where he drove out the child's devil by joining in the ritual mounted by ancient Romanian "Calusari", his willingness to believe in anything is shown to pay

NYPD Blue was created by Steven Bochco who was also responsible for Hill Street Blues and LA Law. Now he has taken the law-office setting of LA Law and the concentration of interest

trial and created Murder One, a drama serial of 23 one-hour episodes all centred upon a single crime. It started transmission on Sky Movies at the beginning of January and a look at the opening episodes suggested that here, once again, the Americans have a thing or two to teach their British colleagues. More on Murder

One in next Saturday's column. British television drama has plenty to offer in addition to Middlemarch and Jane Austen. Current series which range from the adequate to the quite good include Our Friends In The North and A Mug's Game from the BBC and, from Channel 4, a new soap opera set in the Houses of Parliament and named after one of the most famous spots in there, Annie's Bar. The opening episode was quick, funny, and - if not as wicked as the best of Spitting Image - still quite pleasingly naughty. But if it is fastpaced crime series that you are after, the Americans are still streets ahead.

Concert

Czech debut with the BBC

nlike the indepenntil Nelson Mandela miracles", sowing them in the that land? Buks put his first dent orchestras, the was only a few years old. His BBC Symphony is life is as deeply rooted in that soil as the walnut tree next to under no great pres-sure to find world-famous the windmill." That is old names to conduct it: non-famous but good will do nicely. Its new principal guest conduc-tor, the Czech Jiří Bělohlávek, new, and Fugard's treatment of the theme becomes increasingly sentimental: "The truth fills the bill admirably. He has the Author tells Veronica. visited London before, but last week he made a first public as I'd like to be. It involves appearance in his new role letting go... I'm jealous of your youth, your dreams." with the Symphony, with an enterprising programme devoted to music of his native

production, which promised to be an event, proves off-key. This solipsistic parable shows scant insight and does not add It made an excellent concert, interesting and thoroughly rewarding. The only tolerably famīliar work was Janāček's enic tone-poem Taras Bulba. Valley Song is at the Royal which he saved for a rousing Court Theatre until March 5 finish; before that we heard rare-ish Dvořák. The Wood

Dove, and two pieces by Martinu and Petr Eben (b. 1929) which will have been unfamiliar to almost everybody.

Eben's quarter-hour-long

Prague Nocturne, subtitled "Hommage à W.A.M." (meaning Mozart), proved fascinating. Based on Mozartean figures and cadences, with just a hint or two of literal quotation. it evokes a melancholy, crepuscular Prague in an original tone of voice. Eben is clearly worth exploring. The Wood Dove is late Dvořák, a sinister fairy-tale in which each episode is limned with a sure orchestral hand. Played as subtly and pointedly as it was here (mocking, sentimental trumpet, cascades of sighing strings) it sounded like top-

drawer Dvořák. Martinu's 4th piano concerto,

subtitled "Incantation", is another late piece (1956), from the composer's American period. By then he had cottoued on to the extrovert rhetoric of postwar American music; the combination of that with his characteristic quirkiness is spicy and tantalising. The young Czech pianist Igor Ardasèv delivered it dashingly,

almost recklessly.

Taras Bulba made a fine blaze at the end, and Bělohlávek built it up with scrupulous sympathy. This is a distinguished musician, and if the BBC Symphony goes on playing as well as it did for him here - alert, bright, responsive - we can look forward to many exciting con-

Opera in Brussels/David Murray

Powerful new perspective on Khovanshchina

n Brussels, the Théatre de la Monnaie has mounted Mussorgsky's Khovanshchina to stirring effect. La Monnaie is bilingual Belgium's long-standing "French" house, and De Vlaamse Opera Flanders Opera, playing alternately in Antwerp and Ghent - the competing "Flemish" company; but now that both teams have espoused opera-in-the-original-language, the differences between them are vanishing.

La Monnaie's remarkably impressive original-language Khovanshchina shows why. In the six principal roles there are three distinguished Russians, a Norwegian (Ronnie Johansen, an uncommonly positive Shaklovity), an apstanding American tenor (Jacque Trussel, despite his name) as the westernising liberal Golitsyn, and Willard White - our own Jamaican bass-baritone – as Prince Khovansky, whom he also sang in the new ENO production just over a year ago. The keen, intelligent producer is another Norwegian, Stein Winge, and the American conductor Paul Daniel is on loan from our Opera North.

Yet the Belgian component is weighty, for it comprises not only some smaller roles and of course the orchestra, but the multiple choruses superbly rehearsed, at greater length than any British com-pany can afford – who carry so much of Mussorgsky's drama. Daniel and Winge agree about that: the subject of Khovanshchina is only secondarily the factional struggles that seethed around the advent of Peter the Great, "modern" westernisers pitted against feudal boyars against Old Believers who recognised only an antique, puritanical orthodoxy. The real heroes of the piece are the Russian people, doggedly unchanging while the politicos rant and murder each other.

That has always been a plansible view of Mussorgsky's operatic score, which he left uncompleted as a rich, disor-derly portfolio of sketches, with only two numbers fully orchestrated. Daniel and Winge have tightened it purposefully, making cuts which, they claim, match Mussorgsky's own intended excisions: the Lutheran pastor, and some marginal kerfuffles, but even the bigoted Old Believer Susanna's denunciation of lovelorn Marfa's sins.
They read that shrill scene

as a reluctant, secondthoughts' concession to the composer's incurably liberal friend and proselytiser César Cui, for whom the Old Believers were no more than deplorable historical relics. Rightly, as I think, they choose to respect Mussorgsky's more even-handed, detached sympathy for everybody. He devotes the whole of the final Act 5, after all, to the Old Believers' collective self-immolation in the face of Peter's implacably 'modern' forces.

What moves them may be mysterious, but it is not just crazy fanaticism. It should move us, and it does here. Mussorgsky had written D.M. hardly anything down for their apotheosis before his premature demise; all we know is which old hymns he had chosen for the basis of the scene. and (roughly) how he meant to treat them. Rimsky-Korsakov's well-meant, full-dress version - until recently, the standard one - "corrected" Mussorgsky's idiosyncratic harmony beyond recognition, and both his and Shostakovich's more faithful but Soviet-optimistic redraftings contrived to suggest some "new dawn" after the blunt tragedy, as did Stravinsky's 1913 draft for Diaghilev's com-

In the Daniel-Winge concep tion, orchestrally realised by J. David Jackson, there is no dawning promise. The Old Believers immolate themselves, which is understandable but bleak: their voices soar fervently while they can, and Rimsky's flame-figures (authentically Mussorgskian, surely) continue to flicker in

The superbly rehearsed Belgian choruses carry so much of the drama

the orchestra: that is all, time less and non-judgmental, Nothing else comes. We are left with the sense of something solemn but open-ended, a clouded, unpromising future against a rich but hopeless

When the ENO mounted its brave Khovanshchina, I remarked that it needed only some real Russians to fill out the characters in pungent breadth. La Monnaie has those (unstinted state support is a blessing!) in Elena Zaremba's rapt, other-worldly Marfa, Vladimir Bogachov's good-for-nothing Khovansky-Bogachov's fils and above all Anatoly Kotscherga's saintly, impersonal Dosifey, leader of the Old Believers. His stark bass authority out-

weighs White's silken warmth as Khovansky père; but just for that reason, White's Khovansky acquires twice the depth he had at the ENO - a lesser political figure here, but a appealing Prince. Trussel's Prince Golitsyn is last seen abjectly stripped and lost, borne upon the swirling mob that sees him into exile.

Winge's production takes no sides. Mussorgsky's music is allowed to assign its own weightings, and the characters expand without help or hindrance from any parti pris. The staging, even barer than the ENO's (timeless Russian mufti for the plebs, Maña garb for the modernisers), gains sharper force in La Monnaie's close quarters. And Daniel invests the score with intensely detailed feeling as well as imposing scope and breadth; it makes a grand epic, disturbing in exact proportion to its long, dispassionate view.

Supported by Credit Communal/Gemeentekrediet; further performances at Brussels February 8, 11, 13, 15 & 17.



■ BARCELONA

Museu Picasso Tel: 34-3-3196310 Picasso and Els Quatre Gats: this exhibition brings together a selection by Picasso between 1898, the time cultural life, and 1904, the end of his

CONCERT Berliner Sinfonie-Orchester, with conductor Marc Albrecht, violinist Heinz Schunk, cellist Friedemann Ludwig, oboist Aldona Kosel and bassoonist Rainer Luft perform

works by Delius, Haydn and Mendelssohn; 8pm; Feb 10, 11 OPERA

Komische Oper Tel: 49-30-202600 Die Entführung aus dem Serail: by Mozart. Conducted by Yakov Kreizberg and performed by the Komische Oper; 7.30pm; Feb 10

■ BONN DANCE

Oper der Stadt Bonn Tel: 49-228-7281 Ein Sommernachtstraum; a choreography by Yuri Vamos to music by Mendelssohn, performed by the Ballett Bonn; 7pm; Feb 10

■ BUDAPEST EXHIBITION

Hungarian National Gallery Tel: 36-1-17575333 The School of the Hague: exhibition of works by the painters of the Hague School, a group of Realist artists who worked in Holland between 1860 and 1900 reviving many of the traditions of 17th-century Dutch landscape and architectural painters. The display includes paintings by Joseph Israels Mesdag and others, as well as some early drawings by Van Gogh. The exhibits come from the collection of the Haags Gemeentemuseum in The Hague; to Feb 11

COPENHAGEN

EXHIBITION Statens Museum for Kunst - Royal Museum of Fine Arts Tel: 45-33 91 21 26 Christen Koebke; retrospective

exhibition devoted to the work of this Danish artist (1810-1848), one of the most important painters of the Danish Golden Age. Koebke painted

land.

portraits, landscapes and architectural paintings. The display includes paintings, drawings and prints from European and American collections; from Feb 10 to May 5

FRANKFURT EXHIBITION

South Africa's legacy to the

"I'm not as brave about change

Like Veronica's singing, the

up to a play.

(0171-730-1745).

Schim Kunsthalle Tel: 49-69-2998820 Inoue Yu-Ichi: part of a tripartite exhibition of the work of this Japanese artist (1916-1985). The paintings and drawings on display show the bombardments of Hiroshima. Work by this artist is also exhibited in the Museum für Kunsthandwerk and the Karmeliterkloster in Frankfurt; to Feb

HELSINKI

OPERA Opera House Tel: 358-0-403021 The Last Temptations: by Kokkonen, Conducted by Kari Tikka and performed by the Helsinki Opera, Soloists include Martti Wallen, Satu Vihavainen, Pertti Mäkelä and Hellevi Seiro; 7pm; Feb

LONDON

Phillips Tel: 44-171-6296602 Scripophily & Paper Money: highlights include an American Express Co. share and a 1921 collection of Portuguese

notgeld; 0.30pm & 2pm; Feb 8 CONCERT

Barbican Hall Tel: 44-171-6388891 Nikolai Demidenko: the planist performs works by Chopin and R. Schumann: 4pm: Feb 11 Wigmore Hall Tel: 44-171-9352141 International Songmakers at Wigmore Hall: soprano Christine Schäfer, mezzo-soprano Stella Doufexis and baritone Christopher Maltman, accompanied by pianist Graham Johnson, perform songs by Berg, Mahler, Britten, Wolf and others; 7.30pm; Feb 9

Royal Opera House - Covent Garden Tel: 44-171-2129234 Samson et Dailla: by Saint-Saens. Conducted by Jacques Delacôte and performed by The Royal Opera. Soloists include Dolora Zajick, José Cura, Robin Leggate and Roderick Earle; 7pm; Feb 10

LYON

Opéra de Lyon Tel: 33-72 00 45 45 Lyon Opéra Ballet: perform Jiri Kylians Stamping Ground to music by Carlos Chavez, William Forsythe's Second Detail to music by Thom Willems and Martino Müller's Le Jour Même to music by Steve Reich, Henrik Rickels and Gavin Bryards; 8.30pm; Feb 9, 10

■ MUNICH

EXHIBITION Villa Stuck Tel: 49-89-4555510 Marina Abramovic: exhbition of Installations by Martina Abramovic, organised in co-operation with the Museum of Modern Art in Oxford:

from Feb 8 to Apr 8

■ NEW YORK

OPERA Brooklyn Academy of Music Tel: 1-718-636-4111 Orlando: by Handel. Conducted by William Christie and performed by Les Arts Florissants; 8pm; Feb 9 (7pm), 10, 12, 13

PARIS CONCERT

Salle Pleyel Tel: 33-1 45 61 53 00 Orchestre Philharmonique de Radio France: with conductor Alain Lombard perform Brahms' Symphony No.1 and Prokofiev's Symphony No.5; 9pm; Feb 10 Théâtre de l'Opéra Comique Tel: 33-1 42 44 45 46

 The Turn of the Screw: by Britten. Conducted by Dominique Debart and performed by the Opéra Comique and the Ensemble orchestre régional de Basse-Normandie. Soloists include Emmanuel Lanièce (Feb 9, 11), Sébastien Brohier (Feb 13), Juliette Vergnaud (Feb 9), Kehna Benhaiem (Feb 11) and Lucie Davienne (Feb 13); 7,30pm; Feb 9, 11 (4pm), 13

THEATRE Comédie Française, Saile Richelieu Tel: 33-1 40 15 00 15 Phèdre: by Racine, Directed by Anne Delbée. The cast includes Catherine Samie, François Beautieu and Martine Chevallier; 8,30pm; Feb 8

STOCKHOLM

OPERA Kungliga Teatern - Royal Swedish

Opera House Tel: 46-8-7914300 ■ La Traviata: by Verdi. Conducted by Kjell Ingebretsen and performed by Royal Opera Stockholm. Soloists include Lena Nordin, Jonas Degerfeldt and Tord Wallström; 7.30pm; Feb 8, 12

STUTTGART

OPERA Staatstheater Stuttgart Tel: 49-711-20320 Salome: by R. Strauss. Conducted by Gabriele Ferro and performed by the Oper Stuttgart; 7.30pm; Feb 8, 13 (8pm)

■ WASHINGTON EXHIBITION

National Gallery of Art Tel: 1-202-7374215 Johannes Vermeer: the first exhibition ever devoted solely to the art of the Dutch painter Johannes Vermeer (1632-1675) presents 21 of the existing 35 works known to have been painted by this master who lived and worked in Delft; to Feb 11 **OPERA** Eisenhower Theater

Tel: 1-202-467 4600 Verlobung im Traum: by Krása. Conducted by Israel Yinon and performed by the Washington Opera and the Nationaltheater Mannheim. Soloists include Brigitte Hahn, Mildred Tyree, Peter Parsch, Joseph Wolverton, Josepha Gayer, John Shirley-Quirk and Julia Anna Wolf: 7,30pm; Feb 8, 10

WORLD SERVICE BBC for Europe can be received in western Europe on Medium Wave 648 kHZ (463m)

EUROPEAN CABLE AND SATELLITE **BUSINESS TV** (Central European Time) MONDAY TO FRIDAY

NBC/Super Channel:

07.00 FT Business Morning

10.00 European Money Wheel Nonstop live coverage until 14.00 of European business and the financial markets

17.30 Financial Times Business Tonight

Midniaht Financial Times Business **Toniaht**



collective madness.

really hinges on the progress

proposition represents a tena-

In Britain, however, it has

elicited a storm of denuncia-

tion and derision, often on

contradictory grounds and

from opposite ends of the

On one side there are those

saying: "What nonsense! He's

just trying to frighten us into

submitting to his prescription

for a federal mega-state in

Europe. But of course there

isn't going to be any war. So

we don't have to be frightened

of this bogey. We can safely

political spectrum.

Re Grown is

Dur strates are

traded daily on

and Hannover

the Frankfurt

of European integration.

Ian Davidson

Beyond the catcalls

British reactions to the speech by Helmut Kohl on European integration are so irrational they smack almost of hysteria

There was a time when the they're at it again. He's threat-ening us with war, so we must British used to pride themselves on their national talent or calm and commonsens stay well clear of all of them!" Foreigners might froth and foam, but the British would British reactions to the Kohl speech are so irrational they keep cool. Where Europe and almost smack of hysteria. They certainly cannot help in European integration are concerned, however, the political reaching an understanding of what he is talking about, let class seems to have lost not just its traditional sangfroid alone in working out the best but also any sense of rational

diate cause.

tactics or strategy. It is as if the British people were in the In the first place, it seems to me that anyone who claims to grip of some self-destructive be certain there won't be another major war in Europe Last week Helmut Kohl, the is either ignorant or infantile. German chancellor, told an audience in Louvain, Belgium: After all, we are now witnessing the winding-down of a The question of war and murderous four-year war in peace in the 21st century the former Yugoslavia. But nobody predicted it, just as nobody predicted the outbreak You might think that such a of the general "peace" in Europe, which was its imme-

ble point of view, even border-Can anyone find a rational ing on the conventional. Comparadigm to justify or explain ing from someone who is old the outbreak of the first world enough to remember the second world war and has some war? Can we really exclude historical sense of previous wars, you might think the the possibility that new wars may yet break out as an indicomment was entirely underrect legacy of the first and secstandable, especially when ond world wars? Hungary lost made by a German. And if you two thirds of its territory to have heard that the explicit and over-riding purpose of the its neighbours after the first world war, and that could one French, Germans, Belgians day be a cause of another miliand others who founded the tary conflict as the substantia) European Community was to Hungarian minorities in make another European war neighbouring countries, such impossible, then you might as Slovakia, pursue self-determination. Germany and the even recognise it as part of the Community's ancient Czech Republic have still not resolved their quarrel over the orthodoxy: well-worn perhaps, outdated conceivably, but expulsion by the Czechs of 3m nothing worse than a plati-

But I am not suggesting that war will automatically, or the European Union does not eration Germany wants, and nor, it seems to me, is Mr

eastern Europe.

It is, of course, entirely possible to disagree with this point of view. Some people may believe that the EU would be a more relaxed, a more peaceful and, therefore, a more stable enterprise if it were a looser organisation with fewer common policies, less majority voting and no monetary union.

But Britain is not called on to decide whether Mr Kohl is on intellectually firm ground,



Helmut Kohl: well placed to drive events his way

Germans from Sudetenland well founded. The essential question for Britain is, first, after the second world war. And no-one can be sure that Russia's conflicts in the Cauwhether he means what he casus region may not spread says about the kind of Europe he wants and, second

even probably, break out if move towards the kind of fed-

What he probably does mean is that the European Union, with its common institutions, rule of law and democratic principles, is a factor of stability in Europe; that if integration were to come to a halt, or even be reversed, Europe would become more unstable, possibly even dangerous; and that more integration is vital if the union is to be strong enough at the centre to handle the massive frictions and conflicts of interest when it is enlarged to take in another 10 to 12 countries of

matter what was argued at the time of Maastricht. The relevant fact is that many EU vinced of the link between the single market and the single

> ieopardising its access to the single market. As for my two questions: my guess is not only that Mr Kohl means what he says but is fairly well placed to drive events his way. Why? One simple reason: he has allies. Britain has none and is reduced to catcalls and deri-

whether he is in a position to

drive events the way he wants

them to go. This is not an

intellectual argument to be

settled in some academic sem-

inar, let alone in a shouting

match in a school playground.

Of course, there can be an element of rational argument,

but it will be useful only if it

is conducted with a minimum

Last week in an article in

the FT, Mr Douglas Hurd, the

called for a delay in monetar

union. He claimed: "It was not

seriously argued on economic

grounds at the time of the

Maastricht conference that a

single market required a sin-

bly false. The preparation for

Maastricht was lengthy and thorough - and included the

1987 Padoa-Schioppa report on

economic integration and the

1989 report of the Delors Com-

mittee on monetary union

The treaty was explicitly

based on the proposition that

a single currency was

required for the four freedoms

of movement - of goods, peo-

governments are now con-

currency, including most of

those which are likely to join

a single currency. So if the UK

decides to stay out of mone

tary union, it may find it risks

But it does not seriously

ple, services and capital.

This assertion is demonstra-

gle currency.

of intellectual honesty.

LETTERS TO THE EDITOR.

Number One Southwark Bridge, London SEI 9HL We are keen to encourage letters from teaders around the world. Letters may be fixed to 44 171-873 1938 (please set fax to fine), a mail letters editor@ft.com Translation may be available for letters written in the main international languages.

No subsidy for Forbes

From Mr Philip McBride

Sir, That the Financial Times would support taxpayer subsidy of political job hunting, as in your editorial "Forbes' funds" (February 5), is surprising. Here in the US, many of us think that the resulting free hand-out to candidates only heightens their disdain (or ignorance) about other people's money. If they want the job bad enough, they should do what is expected of the rest of us - earn it or borrow it, but surely not burden taxpayers for the sake of their own ambitions.

This view is neutral and non-partisan. History tells us that there are rich folks in both leading parties. Is it better for Steve Forbes to put his own wealth at risk or our modest earnings? It is those who say the latter from whom we have the most to fear.

Philip McBride Johnson, 10002 Thompson Ridge Court, Great Falls, Virginia 22066. US

Cash injection requires return

From Mr Robert Ayling. Sir, Mr Stephen Kinsella (Letters, February 5) is right to point out that the Spanish government was entitled to look at the question of a further injection of cash into Iberia in the same way as a holding company would look at investment in a subsidiary in financial difficulties. A private investor, however, would only inject cash if he could see an

adequate return on his

investment within a reasonable time. The same test must apply to governments But governments have political objectives and sensitivities which often override commercial considerations. Neil Kinnock, the European Union transport commissioner.

deserves credit for trying to introduce transparency and discipline into what has in the past been a scandalously

Commission's activities. We shall be able to make a better judgment when we have seen the Commission's full decision which will include, we hope, Deloittes' report on Iberia's state of affairs and prospects.

Robert Ayling, chief executive. British Airways. Speedbird House, Heathrow Airport (London). Hounslow TW6 2JA, UK

Move will not raise French radio quality

Sir, The great problem with the Peichat amendment. discussed by Andrew Jack in his article "Vive la musique Française!" (February 5), is that it refuses to accept that a good deal of French popular music is, by comparison with Anglo-American pop. very

It may be that the 40 per cent rule does encourage greater investment in French music "if only the motives were so pure". But it would seem

unlikely that this imposition on broadcasters in France would increase the quality The demand for volume in the global TV market has proved that supply and demand in this context has only served to degrade quality. It would be a shame if the amendment pushes the French market into accepting even lower standards. It may also limit their potential to export.

On the other hand, the opportunities are far reaching. As record producers find that

their markets are more difficult to exploit in countries where Anglo-American produced music is their core product, then they could easily set up in France to produce quality songs for a market which suddenly has a great

This may improve the overall quality of the French

Simon Larter, 86 Dresden Road. London N19

Joy of operating German-based stakeholder culture in UK

From Mr Robert Bischof. Sir. Samuel Brittan's article "The snares of stakeholding" (February 1) shows that it seems impossible for Anglo-Saxon economists to comprehend that there can be

an alternative model to the one that states that shareholder value comes first, second. third, fourth - and that it delivers better results as well. After the second world war a number of professors were charged to create a model for a democratic Germany. Among them were Mueller-Armack, Roepke, Hayek and Erhard.

They created a system which was built on the principle that neither of the two old antagonists, Labour and Capital, should be allowed to dominate the other. It was a clear NO to communism and it

capitalism, which had allowed Hitler to exploit its weaknesses booms and busts and mass

unemployment

They designed a new system. in which the two sides are in partnership in the wealth creation process. The street name of this system is social market economy – some now call it Rheinland capitalism. It has been in all departments for five decades a superior system to the Anglo-Saxon model. It has given their people a much higher standard of living and it has therefore been the model for many countries, lately also for the new east European

In corporate governance terms, it means that the management board runs the business on a day-to-day basis. In all significant decisions, however, it has to consult the

supervisory board, where half the members are representatives from blue-collar and white-collar employees and middle

management and the other half consists of shareholder representatives with the chairman having the casting vote. The supervisory board also controls the performance of the management board at close quarters. Decisions are in more than 99 per cent of cases upanimous. The problem with Germany's system is not its basic

principle, but that it has been perverted by a mass of legal and institutional red tape. It is also true that it has led some German management boards to be too preoccupied with seeking consensus and with pursuing long-term strategies, where tough decisions were

needed. Shareholders have been neglected in favour of customers, market share and employees from time to time. Germany is addressing these problems and will introduce no doubt a bit of tough Anglo-Saxon profit thinking in

future. In Boss, like in most continental and Japanese owned companies, we have of course the best of both worlds: We practice our stakeholder culture and are not restricted by the paraphernalia of an institutionalised framework. Hence it's such a joy to run

Robert Bischof, chairman, Boss Group Gravehury Road. Leighton Buzzard, Bedfordshire, LU7 8SR, UK

We insure insurers – with growing success.

Worldwide competence allows us to grow.

In the 1994 business year, the HANNOVER Re achieved a gross premium income exceeding DM 3.5 billion (without subsidiaries) and the best underwriting result since its foundation. Premium

the demand for security continues to grow worldwide. More than 1,700 insurance companies in over 100 countries rely upon our

writings are expected to rise as

strengths to manage their risk. To provide our clients with fast and efficient service we have a global network of subsidiaries and representative offices in Worldwide marketing makes us successful.

With the capital from the shares issued in November 1994, we purchased as per January 1, 1995, a controlling interest in EISEN UND STAHL Re, a company with which we had previously already formed a successful

underwriting association. The newly constituted HANNOVER Re Group represents the fifth largest reinsurance group worldwide. Backed

by a high level of investments and

a balanced spread of risks by regions and product lines. our earning power is growing in a globally expanding reinsurance market. As a result, one thing is certain: HANNOVER Re continues to follow a path of success. HANNOVER Rudkversicherungs-AG, Karl-Wiechert-Aliee 60,

30625 Hannover, Cermany, Telephone: +49-511/5604-0.

Telefax. +49-511/5604-648

AA+ Rating for HANNOVER Re

Balanced business chilosophy.

improved operating performance

as well as strong capitalisation and

reserve strength.

the deading factors for Standard & Poor's

to again award HANNOVER Re a claims paying

ability rating of AA+

HANNOVER RÜCKVERSICHERUNGS-AKTIENGESELLSCHAFT

At loggerheads on the law **Andrew Jack** on the row in

waged an increasingly fierce fight against corporate corrup-tion in the last few years, against dozens of well-known executives and politicians, and hundreds of minor ones.

Now those under attack are beginning to fight back, demanding reforms to the laws being used against them and creating deep divisions between magistrates, politicians and business people. For some, the existing legis

lative weapons wielded by judges are too harsh on those accused of corruption. But others argue that a softening of the law would let companies get away far too easily with murky and illegal practices. The legal offence at the heart of the debate is abus de biens sociaux, which translates as

and carries a maximum penalty of 5 years' imprisonment and a FFr2.5m (\$500,000) fine. It has become one of the most frequent charges made against the heads of companies suspected of corruption, and is often used as the basis of a

misuse of corporate property

formal investigation by a magistrate. But critics argue it is now being interpreted far too broadly. "It is a judicial aberration which cannot be justified on the grounds of equity," says Mr Kiril Bougartchev, an advocate with Gide Loyrette Nouel, the French law firm, in Paris.

The debate was fuelled late last year when Mr Pierre Mazeaud, the Gaullist politician who heads the National Assembly's law commission, published his plans to soften the impact of anti-corruption legislation. "The real problem in our country is unemploy-ment," he said this week. "If the sword of Damocles [of the law] is hovering over a chairman, he will move elsewhere and we will have more unemployment."

Among those currently ensnared by charges of abus de biens sociaux are Mr Pierre Suard, former head of Alcatel Alsthom – who did threaten to move his group outside France following the accusations made against him - and Mr André Kamel, the head of Dumez-Kamel International and an adviser to Mr Jérôme Monod, chairman of Lyonnaise des Eaux, the utilities and construction group. Another is Mr Bernard Tapie, the business-man and former Socialist min-

A number of leading politicians are also under investigaFrance over attempts to soften anti-corruption legislation



Investigated: (clockwise from top left) Gérard Longuet, Michel Noir, Bernard Tapie and Plerre Suard

corporate property". They include Mr Gérard Longuet, the former defence minister who was forced to resign in 1994. Mr Michel Noir, a former mayor of Lyons, was recently found guilty.

Mr Mazeaud wants to introduce a time limit so the offence can only be pursued by the judiciary for up to six years after it has been committed. At present, it can be pursued indefinitely - long after relevant evidence may have disappeared - while other corrup tion offences have a limit of three years. Apart from abus de biens socioux, only crimes against humanity have no

expiry date in France. Business argues that Mr Mazeaud does not go far plain in private of the injus-tices they face, but they are reluctant to speak publicly or criticise the judiciary, since they are often either already under investigation or vulnera-ble to probes in the future.

However, the Patronat, the employers' federation, came out in November 1994 with a tion for the corresponding report calling for a tighter defi-

nition of the offence and a time limit. Similar arguments were made in a report made public last month by the Paris Chamber of Commerce and Industry. Even Mr Xavier de Roux, the rapporteur or secretary for the parliamentary law commission and a partner with the law firm Gide, opposes Mr Mazeaud's draft, arguing the real problem is poor interpretation of the existing legislation. He called this week for a circular from the Justice Ministry clarifying the position.

As he sees it, successive rulings made by judges over the years have drifted away from the strict legal definition of abus de biens sociaux, broadening its scope to incorporate acts which bear little relation to the original intention of the law - which was to prevent wilful removal of funds from a company against its interests.

His colleague, Mr Bou-gartchev, argues that the recent application of the law has embraced actions which may have been unintentionally carried out by a company without an executive's knowledge or wishes, and others which may be illegal but which

clearly benefit a company.

"I am not saying these acts are rate type of offence," he says.
"Abus de biens socious" s becoming a catch-all infrac-tion. Little by little its definition is going astray."

Such arguments find little sympathy among the most vocal opponents of change to the existing law, the magistrates. "The proposition would risk considerably hindering judges," says Mr Jean-Claude Bouvier, secretary-general of the Magistrates Union, reflecting views held by most professional bodies.

He says that imposing an expiry date would be dangerous because the corruption issues under investigation are complex and often take time to emerge - perhaps being discovered only after a tax inspection, an end-of-year audit or bankruptcy. He stresses that in practice, few investigations begin more than six years after the suspected offence took

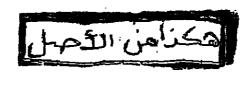
More importantly, he argues that the existing law is an essential starting point for the current national anti-corrup-tion drive. "Most of the big political-financial scandals in France started with the discovery of abus de biens sociaux.

he says. "France is a country with extraordinary ambiguities and opacity," he says. "Adequate control mechanisms hardly exist in France. Shareholders have little power and auditors are paid by the company so they are not totally independent. We need this law until there are strong institutional mechanisms in the struggle

against corruption." The storm created by Mr Mazeaud appears to have led the government to distance itself from his proposals, and hence from any suggestion that it is willing to be soft on corporate abuse.

The Justice Ministry now says that it has no plans to incorporate the ideas into its own broader legislative programme, and that there is no space for the reform on the parliamentary calendar.

It is too early to assess how unjust the charges of abus de biens socioux are really proving to be in France, since most of the current investigations have yet to reach the courts. In the meantime, the effect in boardrooms has been to focus executives very carefully on the possible legal implications



FINANCIAL TIMES

Number One Southwark Bridge, London SE1 9HL Tel: +44 171-873 3000 Telex: 922186 Fax: +44 171-407 5700 Wednesday February 7 1996

Demerging British Gas

Ten years after privatisation, ing a settlement of British Gas-British Gas has finally dispensed with the legacy of Sir Denis Rooke, the autocratic former chairman who fought so hard to prevent the government selling the business off in parts. Its announcement that it plans to split into two separately listed companies is long overdue, though the move will not of itself solve the serious problems facing the

i while Beild The state of the s

i mounte sepa

Airways.

quality

ed mark a force.

in the fine could be to be to

Birdherit Die 28

grann der fre

亚亚亚克

: Larter.

at Nig

enden Road.

in UK

C Sharenverses

3-14- -2 L 25904

The Diff 1882

· 一

14 C. C. C. C.

F 40 120 25g

mental andress

· Leter dige

in to turned

`್ ನ್ಲಿ ನೀಡಿಗೆ ಸಾತ್ತ

DESCRIPTIONS

Service State

arthan.

A 450 FUD

Acouty Rest.

ghion Buzzari.

Bord hire IUEE

F

W. T. 12 . 1982

The second secon

And the second s

Three years ago the Monopolies and Mergers Commission convincingly argued that the government should break British Gas in two. It said the company suffered from an inherent conflict of interest, harm-ful to competition, in being both a seller of gas and owner of the transport system which its competitors had to use. Ministers, fearing this might delay their plans for greater competition, and still seeing the company as a national champion, merely insisted that the two businesses operate as legally separate entities under the group umbrella.

Now British Gas, despite its long tradition of resistance to change, has suddenly chosen to demerge. Mr Richard Giordano, the chairman, explains this will make management focus on com-petition, will ease the regulatory burden and will help the group recover the public goodwill it has lost through controversy over its executive pay and service quality. However, the award of a £120,000 consultancy contract to Mr Cedric Brown, the retiring chief executive who was at the heart of the pay controversy, suggests a continuing lack of political

sensitivity over compensation. The structure of the demerger indicates that Mr Giordano also dispute with North Sea producers over "take-or-pay contracts", which require it to buy gas at prices far above the prevailing market levels.

Unless that problem is solved British Gas Energy, the new trading company, will be a vehicle of very limited investor appeal. It will inherit the "take-or-pay" con tracts - with their potentially huge liabilities - and a domesti market about to face the full blast of competition. More positively, it will also include the huge Morecambe gas fields, and a production capability which may give it lever age in its "take-or-pay" negotia

Its management will have powerful incentive to reach agree ment with the producers, who in turn may be more willing to com promise once British Gas' attractive transportation, exploration and production businesses are in a separate company

A wider question is whether the demerger goes far enough. A good case can be made for separating the domestic transportation utility from the more international exploration and production side, though the latter would look a much weaker vehicle with the Morecambe fields stripped out.

British Gas may be hoping that ministers will be persuaded by the trading company's highly uncertain financial position, and 19m customers, to relent on their refusal to grant it compensation over the "take-or-pay" contracts. But the government should refuse to get involved. The contracts are commercial undertakings which British Gas was happy to take on in monopolistic days and it should pay the price for these misjudg-

Aznar's plans

Question: how do you win next reductions in public borrowing month's Spanish election on a platform of austerity and self-bloated and inefficient social secudiscipline? Answer: you keep the details to yourself. This appears to be the thinking behind the election programme unveiled yesterday by José Maria Aznar, leader of the Popular party and odds-on favourite to be Spain's next prime

minister. Mr Aznar's lead in the opinion polls suggests that the voters are ready for a change. But, with just four weeks to go until polling day, he is not taking any chances. His wide-ranging election programme promises change without far-reaching reform, and austerity without, it seems, any pain. This may help him shore up support from those who feared a Thatcherite break with 15 years' social democracy, but it provides little clue to what he might do in

The plans for the budget are a case in point. Mr Aznar's determination to see Spain qualify for any "first wave" of entrants to European monetary union has been the touchstone of his campaign to date. But his plans for getting the public finances back on course are verging on the disingenuous.

As the Organisation for Economic Co-operation and Develop-ment pointed out in its recent survey on Spain, no government will

rity system. Yet Mr Aznar is now promising to leave the mass of pensions, public health services and unemployment benefits untouched. Instead, the deficit will be reduced with a more palatable but less credible - programme of cuts in administrative spending, and speedier sales of state assets.

Administrative costs make up a tiny share of overall spending: even draconian cuts in "fraud and abuse" would make little dent on the deficit. Mr Aznar's privatisation proposals are trickier to s, since he has yet to reveal which companies he would like to sell off. Nor. perhaps more important, has he indicated a possible

The Popular party has clearly learned a lesson or two from President Jacques Chirac's travails since taking office in France. If it wins power, the vagueness of this programme may protect it from cries of treason when it comes to tackle the country's fiscal problems against a background of 23 per cent unemployment. On balance, the business community still believes that Mr Aznar will do a better job of facing up to the country's economic challenges than the incumbent. But as even his strongest supporters must admit, he be able to achieve long-term has a funny way of showing it.

Irish beef

in two weeks' time, the European Commission has to decide on how much it is going to fine the Irish government for its failure to conmarket back in 1991. Commission officials have recommended penalties totalling more than I£100m for a séries of offences including irregularities in tendering for intervention beef contracts, and falling to ensure that the full value of intervention beef, subsidised by Brussels, was taken into

storage. Understandably, the Irish government is protesting at the scale of the fines. Mr Ivan Yates, the agriculture minister, says that they are "totally disproportionate and punitive." He complains that the Commission officials are motivated by a desire to make an example of the brish industry, in their determination to stamp out farm fraud.

Ireland is not the first EU member state to be hit by a heavy fine for its failure to police the horribly complex regulations of the Common Agricultural Policy. Italy was fined Eculbn in 1998 for ignoring the milk quota regime for no less than 10 years. Britain, ltaly, and France are all facing smaller fines for irregularities in the 1992 financial year. But Ireland's fine would certainly be one of the heaviest per capita penalties yet imposed for the Irish taxpayer.

by the European Commission. The scale of the fine is supposed to relate to the financial risk to the EU from the fraud or irregularities in question. That means both how seriously it disrupted the market and how badly the government of the member state slipped up in failing to police the rules. The suggestion put forward by the Commission's own officials is that the Irish offences belong in the most serious category, inviting a repayment of a full 10 per cent of the beef subsidy payments made during the period in question. An independent "conciliation committee" has concluded that the fine should be reduced to just 5 per cent.

If the rules of the CAP were not so appailingly complex, farm fraud would not be so prevalent. That can never be emphasised enough. But as long as the structure exists, it must be ruthlessly policed. The European Commission urgently needs to prove that it is serious in clamping down on farm fraud. So it must be tough. But it must also be fair. If the Irish fraud did not cause serious disruption to the market, then the key question is rather the extent of the Irish government's failure to police its own market. If that is shown to have been gross, then the toughest penalty should be imposed. It will be a sore lesson

COMMENT & ANALYSIS



A problem halved

Demerger could help British Gas deal with its commercial conflicts, say David Lascelles and Robert Corzine

he demerger of British Gas will be the largest corporate restructuring ever undertaken in the UK. It will also be the longest awaited, and potentially most far-reaching, affecting virtually every household in the country and nearly 2m shareholders.

Yesterday's announcement marks the culmination of 10 years of heated debate over the company's dominance of the UK gas market. British Gas has wielded power on a scale that no private-sector com-pany in the UK has ever-enjoyed.

Yet despite two monopoly inquiries and an investigation by the Office of Fair Trading, the company is only now yielding to pressure to break itself up. Why has it taken so long - and what will be the conse-

Much of the blame belongs to the Thatcher government which decided to privatise British Gas in one piece in 1986 to preserve a strong, unified company. Although subsequent monopoly investigations chipped away at its strangle-hold on the industrial and domestic gas markets, none managed to prise

This was partly because British Gas agreed, at each critical stage, to give up just enough market share to pacify its critics. But the main reason was that the government continued to see it as a "national champion" - in the words of Michael Heseltine when he was trade and industry secretary in 1994. The company encouraged this notion by pro-claiming itself a "world energy company" in its advertisements. But the reality was moving in a different direction. As a result of ing British Gas, But it does simplify

the 1993 monopoly inquiry, the gov-ernment decided to throw open the UK gas market to competition by 1998. This required British Gas to gear up to meet new competitors on its doorstep - and to reorganise itself to remove conflicts between its gas trading arm and its pipeline business which would transport competitors' gas as well as its own.

This process plunged the com-pany into turmoil. Huge job losses were announced to cut costs, leading to a slump in staff morale. And the separation of transport and trading threw into sharper

relief the conflicts between the two businesses. These were not just on the competitive front. The trading business, which buys and sells gas. is an entrepreneurial activity requiring sharpness of eye and fleetness of foot: profits come from shrewd dealing. The pipeline business is highly regulated, long-term, and earns steady profits from tolls. The changing of the guard at British Gas, which began with the

appointment of Mr Cedric Brown as chief executive in 1992 and Mr Dick Giordano as chairman in 1994, brought fresh eyes to the problem. The realisation began to dawn that break-up might, after all, be the best way to resolve internal strains. But it still took several years for the idea to come to fruition - not helped by the furore over Mr Brown's salary and the squeeze caused by slumping gas prices. The transformation also required the company to shake off grandiose visions of a multinational flagcarrier and come down to earth.

enormous scale of the challenge fac-

the task," says Mr Giordano. The new structure should permit two very different companies to evolve. If all goes to plan - and more costs have to be shaken out -the trading arm, British Gas Energy, will become more entrepreneurial. The pipeline business, TransCo International, more able to concentrate on its long-term goals.

One of the hopes is that this change will better equip the trading arm to resolve British Gas's biggest headache: the take-or-pay contracts with North Sea gas producers at high fixed prices which have landed it with heavy losses. According to Mr Giordano, management will have a stronger incentive to negotiate new terms since their losses will no longer be cushioned by profits from other activities. Until the contracts are renegotiated, it will be impossible to place an accurate value on British Gas Energy, but Mr Giordano did not think this

should delay the demerger. Even so, the split is untidy and not altogether logical. TransCo International has been given the UK pipeline network and also the company's international business with which it arguably has little in common. The large British Gas exploration and production business has been split between the two new companies, with British Gas Energy getting the lucrative More-cambe Bay gasfields to give some muscle to its trading activities. It had been expected that exploration and production would be separated into a third arm, but Mr Giordano said yesterday that this had been rejected as unworkable.

Looking ahead, the major question is how the demerger will affect

the introduction of competition to the domestic gas market, due in From the consumer's point of

view, it should be good news. The demerger will increase confidence in the independence of the TransCo pipeline monopoly and encourage more competitors to come into the market. And if British Gas Energy becomes more competitive, this will put extra downward pressure on

However, these reasons make it potentially bad news for shareholders and other competitors. By stimulating greater competition, the profit prospects for all gas suppliers will be reduced. Significantly, Mr Giordano was reluctant to make any dividend commitments on behalf of British Gas Energy yesterday - in contrast to TransCo which he said would become the principal source of pay-outs to British Gas shareholders. Sid, the archetypal popular shareholder invented for BG's privatisation, may not find BGE to his taste.

The government welcomed yesterday's developments - which is fronical given that it had encouraged British Gas to remain big. It had also rejected the 1992 recommendation from the Monopolies and Mergers Commission for an enforced break-up on the grounds that it could not be done in the five years proposed (it will now happen voluntarily in 14 months).

British Gas must be hoping that the demerger and Mr Brown's retirement will finally quieten the furore that has dogged it for years and make it a more efficient company as well. That will be the challenge for its new entreoreneurs.

Stage set for fresh players

ike the cast of a play reaching its dénouement, all the characters in the longronnine British Gas drama were present for yesterday's

Centre stage was the tall, com-manding figure of Mr Dick Giordano, the chairman who arrived two years ago to sort out the troubled company. A tough American, his voice hoarse from all the talking, he needed to convey the impression that everything was under control, that the demerger

was in everyone's best interests. But it will be an uphili battle. His own judgment has been called into question because of the recent shambles at British Gas, and the furore over executive salary increases which were his idea. Mr Giordano is already heading for the wings. He said yesterday that he wants his remaining tenure to be "as brief as possible", and not

beyond 1997 when the demerger is scheduled to go through.

Also heading for the wings was the red-headed figure of Mr Cedric Brown, who announced his retirement yesterday. The British Gas chief executive, a more engaging person than generally portrayed, recently said he was afraid to play the National Lottery. "Knowing my luck, I'd win £40m," he said. It had "not been a pleasant 15 months" he admitted yesterday, but he was consoled by memories of a "fascinating 40-year career with the best gas company in the world".

For the past four years Mr Brown has been battling to transform British Gas - but with only partial success. Officially, he is going because his job will be eliminated by the demerger. But he is widely viewed in the industry as the fall guy for - as well as the beneficiary of - Mr Giordano's decision to raise

his basic pay by 75 per cent.
With Mr Giordano and Mr Brown gone, the stage will be clear for the new characters

One will be Mr Philip Rogerson, the tail, schoolmasterly chairman of TransCo, the arm of British Gas with the pipeline business. Mr Rogerson arrived four years ago from Imperial Chemical Industries as finance director, the first outsider to be an executive director.

He made his mark when he was subsequently given responsibility for the company's international business, where he unravelled some bad overseas investments. Mr Rogerson does not come across as a tough-minded businessman, but he was one of only two people who joined Mr Giordano and Mr Brown on the stage yesterday.

The other was Mr Roy Gardner, a executive who has made no secret of his ambition. Mr Gardner was recruited as finance director in succession to Mr Rogerson and is now in charge of the businesses that will eventually make up British Gas Energy.

One other character was just off stage yesterday: Mr Harry Moulson, the chief executive of TransCo. who will be the only career British Gas executive left on the board when Mr Brown goes. A rock music and rugby league fan, he has tried to instill a more competitive culture at the pipeline monopoly, improving relationships with some of the gas shippers which are his

pleted the cast for yesterday's performance, their roles have yet to be confirmed. Mr Ciordano binted vesterday that when the official there could yet be a chance for an outsider to join the principals.

Tax and spend.

■ No wonder Germany is having a spot of bother with its public finances. Despite repeated admonitions from the federal government, people seem to think the Wirischaftswander is still in

full swing.
In the state of Hesse, the Social.
Democrat Green government has shelled our Division to build a prison designed to house 540 immates. Admittedly, costs spiralled after a terrorist attack in 1993, but an audit commission still described the complex in Weiterstadt as "a luxury establishment" and said it should have cost 30 per cent less.

It's not just the prisoners who are living it up. Four policemen from Bochum decided they needed a sauna and a squash court in their new premises. Failing initially to secure approval, they pretended that the room was simply for storage, with an unusually high ceiling. Bingo, the DM46,000 came through. They have now been fined between DM5,600 and DM9,000 each. Still rather less than the cost of the squash court.

Fired up

It is tough being a bureaucrat in Tokyo these days, as Kazuo

hot seat as boss of the Japanese foreign ministry's international press division, can testify. At his first social meeting with

iournalists. Kodama told the story of one bureaucrat, moving in to a new job reputed for its toughness, in found three letters on his self. He was instructed to open negach time he encountered serious professional trouble.

Difficulties duly emerged and the newboy opened letter number one. The advice was plain. "Blame your prefecessor." A few months later, thenew boy had occasion to open letter number two. It was entitled "Perestroika" and continued: Time for office restructuring".

Trouble struck a third time. Hoping for some inspiration, the now not-so-new horeaucrat opened the last missive. "Prepare three letters," it said.

Arms length

Have things got to the point where British cabinet ministers do not dare to be seen in the same room as Chancellor Helmut Kohl? It is hard to find any other explanation for last weekend's

strange behaviour by Malcolm Riffond and Michael Portillo, Both went to Munich for fringe meetings with their German - and, in Portillo's case, also French and US

 opposite numbers.
 All were attending the annual "Wehrkunde" gathering of defence Kodema, who has just taken over a buffs in the same hotel, at which

the district of the control of the c

But neither Brit put his nose inside the conference room. Britain's seat was empty until half way through the proceedings when someone alerted the chairman to the presence of armed forces minister Nicholas Soames. He at least made up in bulk for what he

Kohl gave the keynote address.

Gavazzeni's coda

■ Another blow to Italian music-lovers following the burning of La Penice theatre last week. Gianandrea Gavazzeni, the conductor and composer, who drew such extraordinary performances from the likes of Callas, Sutherland and Di Stefano during La Scala's

golden years in the 1950s and 1960s.

died on Monday at the age of 87.

La Scala is pulling out all the stops for the funeral today, with an honour last accorded Toscanini in 1957. Riccardo Muti will conduct the funeral march from Reethoven's Eroica symphony to an entirely empty house while Gavazzeni lies in state in the fover. the doors open wide onto the

square. Almost worth dving for.

Star billing

Full marks to the manufacturer of the DocStar electronic filing system for making capital of the Clintons' Whitewater troubles. An ad in the US press yesterday

picks up on the pressing question the federal grand jury put to Hillary Clinton last month concerning missing papers which made a sudden reappearance on a table in the Clintons' living

quarters.
It is in the form of a letter from John Botti, the CEO of BitWise Designs, maker of DocStar, addressed "to whom it may concern" at the White House. "It has come to our attention," the letter kicks off, "that some time ago a few important documents were misplaced".

Had the White House installed

the DocStar system, they could have retrieved the document electronically "merely by remembering any word on a page (eg Whitewater) and then pushing a button". Somehow, Observer does not expect the Clintons to become customers.

Ding dong

While Hongkong Bank yesterday inaugurated Vietnam's first bole in the wall cash dispenser in Ho Chi Minh City, some of the country's financial institutions appear to be less enamoured of the virtues of automation.

A bank in Ha Tay province in the north recently received a cash transfer of 30bn dong (\$2.7m) in 20,000 dong notes. In the absence of a machine, two employees were drafted in to do it by hand. They spent 15 days counting 1.5m notes.

Although these characters com-

Ginancial Times

100 years ago

Brazil has gone one better than Prussia in legislation apparently designed to drive out all foreign life insurance companies. According to the law passed in September last, every foreign company doing business in Brazil has to advertise in the public press every policy issued in the country, giving name, amount of premium and reserve Further, the entire balance of the Brazilian premiums, after paying death claims and expenses, have to be invested in Brazil.

50 years ago

Antidotes to inflation New York: The charge that certain public officials in Washington are deliberately fostering the "erroneous belief that the Stock Market is primarily the source of inflation" is made by Mr Emil Schram, president of the New York Stock Exchange.

Mr Schram declared: "The advance in stock prices and activity in the market are no more than symptoms of the disease of inflation. If we are to check inflation we must attack the basic causes, which are far removed from the surface reflections of the Stock Market."



FINANCIAL TIMES

Wednesday February 7 1996



Party chief's plea may spark political shake-up

Vietnam urged to allow switch to younger talent

By Jeremy Grant in Ho Chi Minh City

Vietnam's Communist party must recruit younger people to top positions, according to Mr Do Muoi, the party leader, who appeared to be signalling a generation change in the country's

leadership. Mr Muoi, who also indicated that future leaders must have a better understanding of economics and technology, is understood to have decided to step down at a landmark party congress around June when the country's economic reform programme will be

His retirement would probably have a knock-on effect in the party leadership, and posts including that of president, held by Mr Le Duc Anh, 79, and prime minister Vo Van Kiet, 73, could be contested. The congress, the first for five years, is expected to debate the future course of eco-

the Saigon Times Daily, are the clearest indication that a new generation is likely to come to the fore in Vietnam's politburo, dominated by elderly veterans average age 71 - who played leading roles during the Vietnam war against the US.

"A younger generation in the Communist party is a must as an ageing party leadership could have a retrograde effect on the country," Mr Muoi, 78, was

quoted as saying.
Diplomats say it is too early to guess who might emerge as successors to those in top positions, but some say Mr Phan Van Khai, 62, deputy prime minister, could succeed fellow reformist Mr Kiet if he relinquishes the premiership. Mr Muoi, who has a reputation

for ideological conservatism. became party general secretary at the party's previous congress

He had been prime minister

Osaka set to offer experience

A \$1.6bn theme park, starring Tyrannosaurus Rex, ET and other cinema favourites is to be

The new park also highlights the group business culture in the Osaka region, as the local investors will include Osaka Gas and the Sumitomo group, which has its headquarters in the city. Their involvement contrasts with the lack of enthusiasm shown by another Osaka company, Matsushita, the former owner of MCA, which failed to back the theme

The project is expected to graduate to the status of a Universal City, similar to that in Hollywood, combining the attractions of a "park-style" entertainment complex with hotels, multi-screen cinemas, cafes, shops and "street entertainers" in what Universal calls "E-Zone entertainment

Mr Ron Bension, chairman of Universal Studios Recreation Group, said he was confident the new theme park could attract 8m visitors in the first year, an attendance similar to that of Uni-

Jaguar lays off up to 2,200 workers after US orders fall

By Haig Simonian in London

Jaguar, the luxury UK carmaker owned by Ford, yesterday said it would lay off most of its 2,300 production workers for a week to reduce stocks of unsold cars.

The company blamed the stoppage mainly on lower sales in the US, its biggest market. It said it had no plans for further short-term lay offs or redundancies.

Jaguar's move surprised analysts as it followed optimistic sales figures last year. Registrations soared by 32 per cent to 39.727 vehicles in 1995 - the highest figure since Ford took control in late 1989. More than 45 per cent of sales came from the US, where registrations climbed 19 per cent to 18,065 vehicles.

Mr Colin Cook, Jaguar's corporate affairs manager, said the layoffs would cut stocks by about 900 vehicles and help to balance supply with demand. He said the company's expansion plans remained unchanged.

Preliminary figures from the UK's Society of Motor Manufacsales of new cars rose by 0.3 per cent to 191,761 in the UK last month, compared with the same period last year. Jaguar's sales

Fears of further industry job cuts as manufacturers tackle overcapacity

He said last month's small rise over January 1995, which was itself down 3.7 per cent on 1994, was "hardly the most encouraging start to the new year".

forecasts for European new car sales this year and follow announcements about short-term working by a number of big European carmakers. New car sales in the 17 coun-

peak sales of 13.5m in the early 1990s.

dropped by 8 per cent to 1,065 cars, according to the data. The society expects new car registrations to increase by 1.3 per cent to 1.97m this year. However, that remains well below the 2.3m sales of new cars recorded

"We are still a long way from the levels we need to be at for a healthy market," said Mr Ernie Thompson, the society's chief

The disappointing UK sales figures are in line with downbeat

tries monitored by the European ciation rose by just 0.6 per cent to 12m vehicles last year, against

Although the association has predicted this year's sales should rise by 3 per cent, a number of manufacturers are considerably

less optimistic. This week, Mr

Helmut Werner, chairman of

Mercedes-Benz, said he expected

registrations to increase by just 1

nam officially abandoned command-style economics in favour

of market-oriented reforms

been a Communist party official since he was 28, said the role and

position of the younger genera-

tion would be decisive for Vietnam's future, but the young must

learn more about information

technology, foreign languages

"The need for a younger party leadership will be a central issue

at the coming party congress,"

Mr Muoi said. "I've learned about

young people in their 30s who

have fulfilled successful tasks:

they have convinced me the

younger generation should be

responsible for building and

defending the country."

About 60 per cent of Vietnam's

population is aged under 25.

Membership of the party stands

at 2.2m in a country with a popu-

lation of 73m, party figures show.

The general secretary, who has

known as *doi moi*.

and "ideology".

per cent in 1996. Other companies were reluctant to discuss stock levels or

However, Ford and Rover are believed to have told some suppliers to expect cuts. "There will be horror stories in the industry," said one supplier.
The prospect of lay-offs reflects

the poor state of the UK car market, which has been plagued by overcapacity and weak demand. Although new car sales rose by 1.8 per cent to 1.95m last year, manufacturers were disappointed. Demand from private motorists remained weak, while

sales to fleet buyers, while See Lex

LOW

Hopes for tax cuts. Page 8 ing in 1983.

versal Studios' US park. As in Hollywood, where the

US to block BA without Heathrow deal

Continued from Page 1

sharing agreement with another US carrier, such as American. The prospect of an alliance between BA and American arose last year when the US carrier was considering taking over

USAir. Both American and United Airlines of the US decided not to mount bids for USAir.

Many in the industry still, however, see an alliance between BA and American, which does not have a European partner, as a strong possibility.

A code-sharing agreement would create one of the world's strongest airlines. It would allow BA to sell seats on American's huge network of US domestic routes and give the US carrier access to BA's flights from Heathrow to other countries. FT WEATHER GUIDE

Europe today High pressure over southern Scandinavia and the Baltic states will keep most of the

continent dry and cold. Temperatures will remain below freezing in Scandinavia, Germany, the Benelux, north-eastern France, the Alps, Poland and the Balkan states. Depressions over the Atlantic will draw milder air towards western Europe. A series of frontal systems will bring cloud and precipitation to the British Isles and we France, Ireland will have outbreaks of rain. Colder air over Scotland and the UK will produce snow. The north coast of Spain and Portugal will be rainy. The Mediterranean will be unsettled with numerous showers in southern Italy, Greece and western Turkey.

Five-day forecast

High pressure over Scandinavia and Russia will keep much of western Europe dry and wintry with temperatures below freezing over a wide area. A series of depressions from the Atlantic will bring in milder air accompanied by rain and snow over south-west France and Mediterranean where conditions will be



visitors the Hollywood

By Christopher Parkes in Los Angeles and Michiyo Nakamoto in Tokyo

built in Osaka, western Japan, through a joint venture which combines the talents and finan-cial power of Canada's MCA entertainment group, Britain's Rank Organisation and Japanese

investors.

The scheme marks the first overseas venture by Universal Studios Recreation Group, which, in parallel with other parts of the MCA concern, is being directed into aggressive expansion by its new owner, the Seagram drinks

park venture two years ago. Modelled on MCA's successful Universal Studios in Hollywood and Florida, the park is intended to be the main attraction which will draw other business into a projected "international media district" on Osaka's western waterfront.

Other companies expected to cluster round the park - in an area to be known as Universal City, Osaka - include software, telecommunications, information and research enterprises, MCA said. MCA and Rank will each take a 17 per cent share in the 140-acre park, with the balance distributed among the Japanese corporate backers.

retail districts".

Work is expected to start in 1998, and the rides and other attractions should open in early 2001, MCA said yesterday. The largest in the country, after the hugely successful Tokyo Disneyland which has attracted more than 160m visitors since its open-

park is built in and around working film and television studios the Osaka project will incorpo rate operational studio facilities

THE LEX COLUMN

The Gas man goeth

Yesterday British Gas chopped itself in half and parted company with its chief executive – yet the stock mar-ket's reaction was: so what? The company is still lumbered with its uneco-nomic gas contracts and still faces a nasty regulatory review, the argument runs. This is all true, but not the whole story. Two things have changed. The demerger puts a clear cap on the total bill stemming from the company's £40bn long-term gas contracts. And it means the cash cow - the TransCo pipeline business - will no longer have to foot this bill.

Together, these should add value. For a start, the net present value of British Gas's contract losses can only he estimated in broad terms it could well exceed £2.6bn, the net assets of the trading business which will house them. Yet the market is still likely to attach some value to this business and rightly so. If the liabilities turn out low, all is well and good. If they turn out high and the business ends up close to going bust, North Sea gas producers will have no choice but to

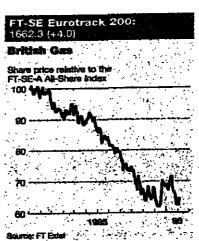
renegotiate their contracts. Of course, the demerger is not all good news. Separating the contracts nightmare from the rest of the company probably means the regulator will feel freer to get tough in her forthcoming price review. On the other hand, even after the review, the business - to be called TransCo International - still stands a respectable chance of sustaining British Gas's dividend. After tax, interest and investment - but before the review - it should generate £800m £1hn a year in

cash, well ahead of the 2630m cost of the dividend. And to investors who believe the dividend can be sustained, British Gas's current share price will look low. Applying the yield of the obvious comparator, the National Grid, produces a share price of 270p; that is 11 per cent above the current price, even ignoring any value from the trading business.

Moreover, using a yield valuation, as the market is likely to, underplays the value of the exploration and production arm. This is to remain with a pipeline business with which it has little synergy. More is the pity: British Gas could usefully have taken the opportunity to demerge this too.

Mittelstand

Germany's Mittelstand is becoming more adventurous. The country's second-tier companies have long been derided for their reluctance to look



much beyond Germany's borders. That is changing. The latest example is Fresentus's bid to take control of National Medical Care, a US kidney dialysis business three times its size, in a deal worth \$3.8hn. Last month, consumer products group Benckiser narrowly lost to France's L'Oreal in a \$600m bid battle for cosmetics maker Maybelline. Gehe, the German drug distributor, is currently stalking the UK's Lloyds Chemist after acquiring

larger rival AAH last year.
The strength of the D-Mark and the high costs of doing business in Ger-many are part of the reason for this rush abroad. But Mittelstand companies are also starting to recognise that they operate in global or at least European markets; and that to get real access to faster-growing emerging markets they need to have a presence on the ground. Where marketing companies such as Adidas have led the way, others are following. Fresenius has set up joint ventures in China and India in the past few years. Benckiser, although still private, has spent more than DM4bn (\$2.7bn) on acquisitions over the past decade and now makes 80 per cent of its sales outside Germany. As a new generation of managers, often Anglo-Saxon educated, takes the helm at many Mittelstand companies, the trend to internationalise will

BSkyB

The stock market is finally waking up to the regulatory threats to BSkyB's lucrative pay-TV monopoly. But the specific event that triggered yesterday's 5 per cent fall in its share price is curious. It is Premier League

has been branded a cartel by the Office of Fair Trading, Arguably, the Premier League's practice of selling broadcasting rights to its matches as a single entity squeezes a higher overall price from BSkyB. If clubs were prevented from forming a single front in talks, BSkyB might be able to pay less by picking them off one at a time.

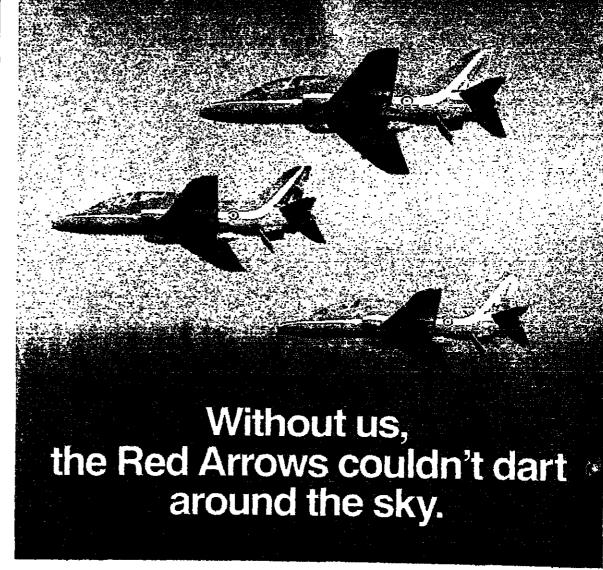
The OFT may find it hard to per

suade the Restrictive Practices Court to ban the arrangement. The Premier League's case that forcing clubs to negotiate individually would lead for fragmentation will be hard to answer. Viewers would be unlikely to welcome it if, say. Liverpool cut a deal with the BBC, Manchester United plumbed for ITV and Tottenham Hotspur signed up

with BSkyB.
That said, the broader regulatory threat remains. Not only is it looking increasingly likely that the government will bow to pressure to curb BSkyB from showing certain sports exclusively; even more threatening is the OFT's main investigation into the satellite group's monopoly. It is hard to fault BSkyB's commercial success yesterday it reported a 70 per cent risein earnings per share. But, with the shares standing on a multiple of about 30 times this year's earnings, the risks are still not fully priced in.

Ford's decision to launch a cheap and cheerful version of its Taurus saloon places a question mark over its whole pricing strategy. The car maker is in the midst of an ambitious overhaul of a third of its model range, including the Taurus, a new pick-up truck and the Escort in Europe. Unlike arch-rival General Motors, which has merely tweaked the styling on some cars, Ford has produced all-new ver-sions, with better technology, more luxurious features - and significantly higher prices. But American consumers are in a bargain-hunting mood and the gamble has not, so far, paid off in extra sales. That is bad news, since of the three big car manufacturers, Ford has the highest development costs – the new Taurus alone cost \$3bn. It is also some way behind Chrysler and General Motors in streamlining its purchasing. The combination is depressing profits at a time when car markets on both sides of the Atlantic are difficult and getting more so.

Additional Lex comment on UK taxation, Page 19



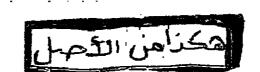
The RAF's Red Arrows are currently at the Singapore Air Show on the latest stage of a world rour, part sponsored by Messier-Dowty and Dowty Aerospace, to highlight the UK aerospace industry's export drive. Critical to aerobatics displays that have already thrilled crowds in 48 countries is a Dowty actuation system. Manoeuvring at 400mph, the Hawk pilots rely on Dowty actuators to operate their airbrakes (shown here) in a non-textbook procedure as they drive engine rpm to almost 100% to achieve maximum agility. Thanks to such top-flight equipment,

those magnificent men can push their flying machines to the limit. Dowty is one of TI Group's three specialised engineering businesses, the others being John Crane and Bundy. Each one is a technological and market leader in its field. Together, their specialist skills enable TI Group to get the critical answers right for its customers. Worldwide.



WORLD LEADERSHIP IN SPECIALISED ENGINEERING

zon about the Ti Group, contact the Department of Public Affair: "H Group plc, Lambourn Court, Abungdon, Own OX14 1UH, England,





View from the top: Les Alberthal of EDS, active in 40 nations

in turmoll



(T in Government: The battle to



Software at work intelligence systems: Rewarding insights

Directions Network-centric computings Transforming business Pages 16-18

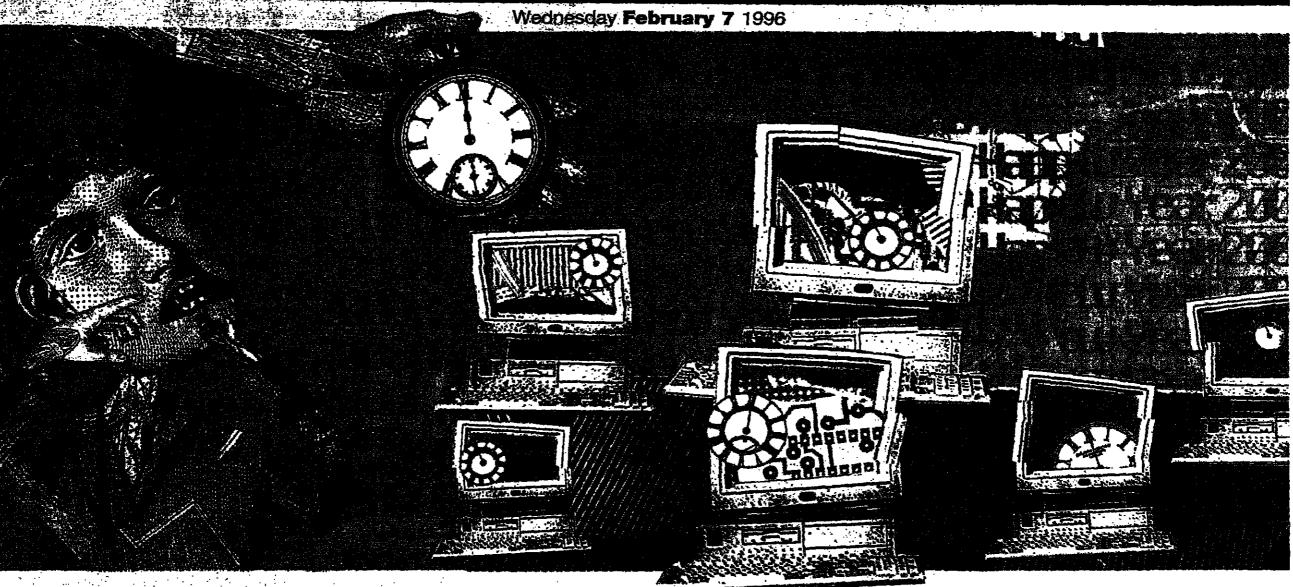


Information Technology

cut costs

Pages 4-12

FINANCIAL TIMES REVIEW



start of the next millennium will present for business and other organisations, few are as away within many computer systems. It is a worldwide problem, which on some estimates could cost up to \$600bn to solve.

"The year 2000 poses one of the most mificant challenges ever faced by the ITindustry and it will have an enormous impact on business applications, package solutions and systems software, even putting some companies out of business. warns Kevin Schick of Gartner, the IT research and consultancy group.

Yet, many companies are still unaware of the so-called Year 2000 problem, or they have chosen to ignore it, or believe that with 47 months still remaining of the twentieth century, there is still plenty of time to put things right.

So what is all the fuss about? Most older computer programmes, particularly those that run on 'legacy' mainframe machines, store dates in the dd/mm/yy or mm/dd/yy format - using two rather than four digits to designate the year. As a result, they cannot distinguish between the year 1910 and 2010 - both of which would be identified by the double digit 50.

At the same time, all date calculations are also affected. For example, a loan which starts in 1996 and ends in 2000 will be calculated as a minus 96-year loan

instead of a four-year loan. Many businesses will be affected by the Year 2000 problem long before December 1999," says Micro Focus, the mainframe software specialist. It has established a special Year 2000 team led by US-based

Among the software applications which

Software timebomb ticks away

With the year 2000 just 47 months away, many businesses face serious and costly disruptions because of the way older computers calculate dates, writes Paul Taylor

ing with forecasting, loans, insurance policies, transport schedules, retirement benefits, as well as others which will either stop functioning or produce incorrect calculations without attention.

Some software is also unable to cope with the fact that although the millen-nium is divisible by 100, it can also be divided by 400 and is, therefore, a leap

Other issues include the use of the numbers 00 and 99 by programmers to indicate a null entry or the final record in a database. In the case of older personal computers, many will reset their internal clocks to January 1980 at midnight on December 31, 1999.

If there were only a few isolated instances of problem dates or date calcula-tions, the solution might be relatively simple. However, with millions of lines of computer code and complex interdependencies involved, it is an all-pervasive problem capable of causing disruption throughout an organisation and even

The problem has arisen because of the limitations of early computer technology and the high cost of storing information when the first commercial computers came into use in the 1960s. At the time, not storing the extra two digits denominating the century was an enormous space-

Although the Year 2000 problem has been acknowledged since the 1980s - and some programmes written since then store dates in the full format - many of those in charge of corporate information technol-

ogy systems have chosen to brush it under the carpet. By the end of 1997, Gartner expects less than 20 per cent to have achieved full Year 2000 compliance, a figure which still only rises to less than 50 per cent by the end of

There are several reasons for this reluctance to come to grips with the issue:

[] Firstly, it could be seen, to some extent at least, as a problem which IT professionals had brought upon them-

☐ Secondly, at a time when many companies were focusing on short-term busi-ness horizons, the end of the century seemed a long way away. Some IT directors may have thought, too, that they would have retired, or moved companies

☐ Thirdly, correcting the problem will be very expensive and bring little if any other benefits. Asking the board for funds may as a result have appeared an unattractive proposition.

"People seem to think the millennium issue will magically disappear, but in reality it is a basic computer problem requir-

ing a lot of surgery that must be under-stood, planned and addressed," says Ian Taylor, chairman of CMG, the computer services group. "A virus is simple com-

pared to the millennium issue." Delay in dealing with the problem will probably add to the eventual cost of recoding programmes, and in many cases is not an option anyway.

Gartner, which has issued a series of search notes on the subject over the past 18 months, suggests that about 20 per cent of business applications would have failed last year without corrective measures, and that by 1999 this figure will have risen to more than 90 per cent.

The high cost of solving the Year 2000 problem

For a medium-sized company with about 8,000 programmes which support business operations, Gartner estimates the cost of the Year 2000 crisis will be about \$450 to \$600 per programme or \$3.5m to \$4.2m; for larger organisations Dun & Bradstreet Software has estimated the cost could be as high as \$100m. Much of the costs relate

It would take 24 people one year to implement a solution in the example above. Alternatively, 12 people using 'software tools' developed specifically for this purpose, could be occupied for one year, in addition to any time needed to gain experi-

ence with the tools. "That assumes the company can afford to allocate staff away from other priorities," notes Gartner.

In practice, many companies are turning to outside specialists to help them with the Year 2000 crisis. Hardware vendors such as IBM and Unisys, software companies such as Micro Focus, consulting firms, such as Andersen Consulting, and computer services companies, including CMG, Viasoft and Cap Gemini have all built up expertise in this area.

Viasoft, a US-based software tools company, has developed a three-phase approach to the problem - assess, plan, execute - and these activities are grouped together into what the company terms a comprehensive solution, Enterprise 2000. Customers can sign up for the whole process, or just for those elements they wish

Viasoft worked with a client in the insurance and banking industry which had already been experiencing problems with the millennium issue. When Viasoft conducted its software audit, it discovered that from a portfolio of 10,000 mainframe programmes, 79 per cent of data items included references to date, and within this group three per cent required chang-

"Although three per cent may appear most certainly not," says Stuart Watkinson, general manager of Viasoft in the UK.

compliant." Because the available external resources are limited, if the problem isn't addressed at an early stage, there may not be anyone available with the appropriate knowledge

lem and ensure the code was millennium

Indeed, most of the programmes affected by the Year 2000 problems are written in an ageing mainframe language called Cobol and although there are still a large number of Cobol programmers around, in the US the number is decreasing by about I per cent a year as programmers move towards more fashionable and modern lan-

"As we approach the year 2000, the number of available Cobol programmers will decline quickly," warns Viasoft, "The time to start is now," says Watkinson. To reduce costs and belp automate the

process most specialists employ diagnostic and conversion tools - "there are more and more tools and toolkits available." says Elaine Eustace, CMG's Year 2000 specialist. Among the main suppliers are Via soft, Micro Focus and Adpac.

"To minimise their exposure to the Year 2000 crisis. IT departments must begin portfolios, assess the extent of the problem and begin budgeting, planning for and implementing the potentially extensive corrective measures that will be required,"

says Gartner. There are, Gartner's Schick points out, just three certainties in this work: "death,

taxes - and the year 2000."



The Extensa 550 series. Affordable multi-media from **Texas Instruments.**



Offering high performance multimedia computing at remarkably low cost. the Extense 550 CD and 550 CDT notebooks feature 75 MHz Pentum

processors, 524 MB HDD storage, and an integrated CD-ROM. For the professional and business user, they represent exceptional value. A choice of britiant, high contrast screens (dual scan and TFT), 16 bit sound, built in speaker and microphone - plus support for full motion video - make these multi-talented notebooks ideal for dynamic product demonstrations and video presentations. And with Windows 95 installed, ready for use,

all these features couldn't be more accessible. For easy one-step communications, a Port Replicator offers parallel, Senal, PS/2 (mouse and keyboard), and VGA connectivity.

There's even Serial infrared for more convenient wire-free communications.

Highly modular, Extensa 550 notebooks can be easily reconfigured to meet your changing needs. For extended use between charges, for example, the FDD is interchangeable with an extra fithium ion battery unit.

The Extensa 550 CD series, from Texas Instruments. Portable Pentium power has never been more affordable. Or multi-media made so accessible. Now there's nothing to stop you doing extraordinary things - contact your Ti dealer, today.



If you'd like further details on the 550 series and other exciting models in the Extensa range, call the Ti Information Line on 0181 875 0044.



Extensa 550 CD 10.5" dual scan



Extensa 550 CDT 10.4° TFT



10.5" dual scan colour display Low cost Pentium

View from the top

■ Interview with Les Alberthal

By Paul Taylor

Needed: more thinkers 'on the outer edge'

DS is the undisputed leader in the outsourc-ing and large systems development and integration market with annual revenues of around \$12bn, a consistent growth record and a strong technology and skills' base.

The group's operations in 40 countries span the IT services sector and include a growing consulting business, boosted by the acquisition in September of A T Kearney; systems integration, involving the design, installation and implementation of computer systems; and IT outsourcing, where EDS runs clients' IT systems – for example, Britain's Inland Revenue – often after purchasing the customer's assets and taking on its computer staff.

Now the information technology professional services group, whose headquarters are in a space-age complex rising from the pasture-land near Plano, Texas, is preparing to be spun off from General Motors, the auto giant which acquired EDS in 1984 from its larger than-life founder, Mr Ross Perot.

In the process, EDS has begun to re-assess its past, and define its future.

"Our perspective on the whole role of technology is that the world has seen five decades of the invention, creation and selling of technology which is basically personified by boxes," says Les Alberthal, chairman, president and chief executive

"Tremendous amounts of money have been spent on technology, but all we have really managed to do is to utilise technology to automate processes which were conceived 50 or 100 years ago.

"While most companies and even governments have the ability to make the technology work on a routine basis, we have never really taken the time to rethink how this technology tool can really be lever-

Indeed, the EDS chairman argues there is an ever-widening gap between the growth of technology and the use of technology - "it is that gap that is really our marketplace," he

Alberthal believes that the emergence of a new generation of computer-literate young adults will have a profound effect on western economies as they enter the workforce and become consumers - "this will start to change significantly how goods and services are procured and used throughout

For example, he thinks most mail order catalogues will go on-line: "You are going to be able to buy the sweaters in the colours and everything else you want, straight off the terminal, 24 hours a day. Industry by industry, product by product the transition will start: It won't be overnight, but as this workforce moves into the con-



Les Alberthal: "No one technology offers a universal panacea"

sumer band you are going to start to see dramatic changes. "Our job with our customers is to help them figure out how to make the right changes at the right time, to make sure they stay on the outer edge of the market that they are in.

"One of the main reasons for us getting into consulting is to have more people thinking on the outer edge of where changes are coming in industries, to look ahead so we can take our implementation skills and tie them on to a better envisioning process for the

EDS believes that the combination of a computer literate workforce together with the privatisation of telecommunications will make it easier for business to communicate directly with consumers.

For example, says Alberthal, carmakers have the technical ability to communicate directly with the consumer 24-hours a day, seven-days-a-week, "but we have this retail distribution years to develop and nobody knows quite what to do with

Eventually, an outsider will come in and make the technological leap leaving competitors trying to catch up, he predicts. That outsider could well come from the developing nations of Asia, he suggests. "The change is coming and

we will have to be able to address that change," says Alberthal. "In our case, our whole business is working with our customers, both government and private sector, helping them more effectively leverage technology.

"Technology is a leverageable tool - it can have an impact on overall cost, time-tomarket quality. It is a differentiating factor.'

But Alberthal is also keen to emphasise that no one technology offers a universal panacea: "There will be situations where using a big mainframe works, but there will be situations where it doesn't."

EDS' own research and development activity is mostly focused on tools designed to make its systems engineers more productive. Generally, the group buys in software narrowly related to a particular industry - "most of our systems engineering activity will be in the area of trying to pull all the pieces together," he

Since EDS is one of the top five customers of all the main hardware suppliers, it is typi-cally 'a beta test' for all of them. "That gives us a chance to see what is coming and influence some of the processes because they also want to use us a marketing avenue to get their product out," he says. However, he also believes that

Successful companies in the future will be those that make the right changes at the right time, ensuring they stay on the outer edge of their markets, says Les Alberthal, chairman, president and chief executive of EDS, the worldwide IT services group with annual revenues of \$12bn

there is a 'fashion' element in the technology box business. Everyone has to have the newest, the latest - "that's the only way the manufacturers can sell new equipment," he

"Client/server 'hit' two years ago, client/server was the new wave and mainframes were going out of the door - everything was going to be client/

"Client/server was nothing but another technology.

The challenge for business and government is how to put together the right blend of technology to do the best job in any given situation - "you don't necessarily want to be on the outer edge of the wave of change because then you become the testbed. And business is usually half a step to a sten back because you need reliability, you need lower cost. You need it to be a commodity

type of activity".
Companies need to stay as close to that outer curve as possible without getting into the testbed area, but at the same time they need to ensure that they do not spend so much money that they cannot be competitive with their rivals - "the biggest problem I see over the next 10 years is going to be companies that fall behind too quickly because, right now, a lot of commanies are really focused on line-item costs of technology".

For them, the danger is that 27 years. "I've seen it grow they miss a significant technology move - "our whole pitch to our customers is that you have to continue to look at technology in the broadest Significantly, senior EDS light, how can it have the maximum impact on your business.

decision process". The main competition for

Let that be the driver of the

from something that conceptually nobody understood, to where the market is going in our direction. It's an exciting

executives including Alberthal also seem ready now to admit that EDS needs to change its old image of being stuffy,

"The initial business we had in the 1960s and the early 1970s was with organisations who couldn't make their computers work ...we were entrepreneurial, crusty and arrogant and all those things that went with it." During the early 1980s, he says, Ross Perot cultivated the

image, "because it was the militaristic, hard-charging kind of

executive level; Honeywell had them, Burroughs had them and gradually what has happened is that as hardware has become more of a commodity. the importance of the software and the technology side has taken its place we have moved into the executive decision pro-

Starting in 1986, Alberthal says the group knew that it needed to start tempering its image, "so we started making a conscious effort to 'soften', to let the world and our customers know that EDS people are very professional, very capable but just like other people."
 So what image does EDS

want to project for its future? "We are obviously grappling with that right now," says Alberthal, "because when we get this spin [off] done, it will be the first time in the history of the company that we are not overshadowed either by the personality of Ross and what image he was trying to create for himself, or General Motors.

"EDS, the company, will be independent, with our own board of directors. We are dealing with that [the image question] right now: we don't have? all the answers, but the things that are important to us are stressing our professionalism, our integrity and our commitment to getting the job done. We will take the things out of our history that are good and try and build on that," says

Global nerve centre: staff at the EDS headquarters in Plano, Texas, monitor activities in 20 other large-scale information processing centres around the world - all linked via EDSNET, the company's private digital

RDS comes from companies such as IBM, AT&T, Andersen Consulting and CSC, but Alberthal notes that EDS has the benefit of 30 years' experience in this business - "I'm delighted we're in the position we are," says Alberthal, who has himself been with EDS for

aggressive and very conservative - even blue shirts and beards were once banned. Alberthal explains: "When we were very small and didn't have access to very much capital, we were individually and collectively, very 'hard charging'...we were very focused.

image he was trying to foster Meanwhile, he claims "the

Mr Osborn points to other

factors which are exacerbating

the skills crisis this time

round. He mentions legislation

changes, notably in banking,

already a heavy user of IT

staff. The UK deregulation and

privatising of utility markets,

notably gas and electricity, is

creating new companies, all

create still more problems.

Massive reprogramming will

The turn of the century will

needing systems developed.

big, old, black image" of EDS was fostered and fed on by the hardware companies - "the hardware guys used to command the executive level, IBM had all the relationships at the

"People are looking for

employers 'doing sexy things'.

because it gives them a new

challenge and looks good on

the CV to be linked with a pio-

neering company," he says.

"This means that even those

doing client-server develop-

ment have to constantly seek

also come at a time when

employers are exploring flexi-

ble working, to the extent of

The skills shortages have

to motivate their people.

E Recruitment

[T skills market in turmoil

Businesses are feeling the impact as the shortage of IT skills hinders moves to more efficient ways of working, especially in customerfocused processes

host of unconnected factors have combined L Lto throw the IT skills market into the greatest turmoil since computers started

Skills shortages are adding 21 per cent on average to computing costs in the UK and are increasing staff turnover and leading more permanent employees than ever before to quit to become contractors.

Skills shortages are not new in IT, where people have tended to see themselves as

been a subject of great debate companies, meanwhile, have seen that the central main-FT-IT Recruitment: A new section starts today in UK editions of ously kept up traditional mainthe Financial Times. It will appear each Wednesday in

the UK and each Friday in international editions of the FT

working in IT rather than for a particular employer and have been ready to move to get the next technology challenge and

career step-up.
But this time the situation is worse - and employers and recruitment specialists see no hope of improvement.

Although the skills crisis of the mid-1990s is following a similar cycle to that of the 1980s, there is now a new generation of skills in demand and very different employment structures and career paths." says Philip Virgo, researcher for the annual IT Skills Trends Report, published by the Institute of Data Processing Man-

Early skills crises arose because of the pure growth of computing. The 1980s brought demand for PC and networking

central mainframe computer was the corporate IT mainstay. This time round, however, there has been a shift away from the mainframe into totally new IT set-ups - fol-

lowed by a realisation that the mainframe is still important The first shift started at the end of the 1980s when computer suppliers came up with

the client-server idea. This moved systems off the mainputers in business departments, typically running under the Unix operating system: the selling points were that users got control of IT and overall costs were cut. The costs issue has since

after all.

specialists. But all the time the

frame still has a role as the central store of corporate data and the processor of corporate systems. These two shifts in IT thinking came, however, at exactly the wrong time: the start of a recession. Client-server systems demanded new sets of skills in companies which had previ-

frame system development by maintaining a steady flow of Cobol programmers, Suddenly, they needed skills in Unix and the associated C and C++ programming languages. Client-server projects were well under way when the

recession struck, but already there were shortages of the new skills - and training is one of the first activities to be put on ice when times get Projects, too, went 'on hold',

but as the recession ended companies dusted them down, only to find that every other company was doing the same and looking for staff.

Then came the reversal of attitude towards the mainframe - and companies found they now also lacked the traditional skills. In the recession they had retrained some Cobol programmers in the new skills and made others redundant, seeing the future beyond the recession as client-server. But they now find they need the traditional skills almost as much as expertise in the newer programming languages.

These trends are highlighted by a survey of IT job advertisements in the trade and quality national press by research firm SSP for Computer Weekly mag-

This shows that Unix and C skills are most in demand but growth in the need for these skills is outstripped by that for C++ and for Cobol, the oldest language in the top 20 yet still in fourth place.

In addition, skills in the mainframe DB2 database manager, CICS transaction processor and SQL query language

Colin Osborn: The market tightened increasingly in 1995'

> are also in the top dozen and enjoying well over 60 per cent A new survey of 270 UK IT managers by recruitment group Delphi shows that 80 per cent have skills shortages and 62 per cent expect the problem to get worse in the next two

Colin Osborn, associate director for personnel at IT services company CMG, has

noticed changes almost from month to month: "The market got tighter and tighter as 1995 went on and the pool of people had certainly diminished by the end of the year."

be needed to ensure that systems can calculate differences between dates across the two centuries, says Mr Osborn, US studies have put the cost of this task at \$10m for IT depart-

ments of more than 25 people. "An enormous workload needs to be staffed here, much of it, again, with people with the older mainframe skills," he

Tony Coombes, director of recruitment group Software Personnel, says the very rush to develop client-server systems is adding to the jobs market turmoil, regardless of skills shortages.

taking on permanent staff on fixed-term contracts and often expecting people to take responsibility for their own development, says 🏄 r "People are 'goin contract' because they feel insecure in permanent employment and say they might as well be insecure as contractors and get better pay," he says.

Growing use of contract staff to fill skills gaps is contributing to the 21 per cent costs increase, highlighted by the Delphi survey. It shows that almost two-thirds of computer departments use contractors. A fifth of the rest expect to turn to contractors in the next two years, while almost 60 per cent of existing users will increase their dependence on outsiders.

Delphi chief executive Tony Reeves points to the ultimate business impact of all the jobs market turmoil - "companies are putting-off updating their systems," he says. "This affects IT costs, especially if they want to downsize - but it also has a business impact, as they are not getting the new systems they want to support the general switch in emphasis from isolated departments to company processes, especially customer-focused process

Next month in this Review: Companies use creative thinking to beat skills shortages.

■ European manufacturing industry: IT Impact Survey

Review of key issues for senior managers

New survey on IT in manufacturing aims to influence national funding strategies

The health of manufacturing Industry is critical to Europe's prosperity, and the IT industry has long maintained that investment in its products is a key to manufacturing profitability.

But is the IT used by manufacturing industry really addressing companies' business objectives? Is senior management successfully using IT investment as an instrument of organisational change and global strategy? And is the concept of partnership between IT-user

الماران والمتأملة والججاجا

aspect of IT policy? This summer, the FT-IT Review will publish a summary of the results - and a number of selected case studies – from the European Manufacturing IT Impact Survey, which will answer

these and other questions by

examining practice in

European manufacturing

The survey – the first in what is intended to be an annual series - is being carried out by CATN, the pan-European IT market research and industry analysis. Its Cambridge office, Cambashi, is leading the

project The issues to be analysed are known to be of serious concern to senior managem across manufacturing

industry. EMIT will identify the state of progress, current best practice and future projections.

The project is being funded by a group of 10 leading technical IT vendors with the purpose of determining how their services and processes can be more closely aligned with the strategic business objectives of their leading

Results will be made available to the appropriate policy-making departments in national governments and the European Commission, with the aim of influencing their funding strategies in the area of technical IT.

For further details, contact Brian Gott or Mike Evans de Cambashi on +44 1223 480430 or fax +44 1223 461055.E-mail: 100431.3342@CompuServe.com



Information Service

For details of forthcoming issues of the FT Review of information Technology, UK callers may use the FT-IT Fax-U-Back Service.

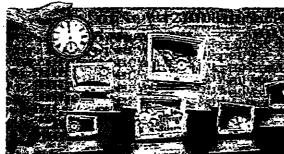
Details include editorial synopses of future issues and writers for various themes. The fax number to call is:

0990 209 903

For callers outside the UK, the fax number is 44 990 209 903

Technical note: if you have a handset on your fax machine, dial the Fax-U-Back number and press 'start' when instructed. Alternatively, the number can be dialled direct from the fax keyboard, followed by

'start'. if callers have technical problems regarding this service, telephone 0171 873 4378. Callers from outside the UK should dial: +44 171 873 4378.



FT Review of Information Technology

Commissioning editor: Michael Wiltshire Writers in this issue (volume two, number one) include: Paul Taylor, IT Correspondent: Louise Kehoe, Steve McGookin. Claire Gooding, Philip Manchester, Michael Dempsey, John Kavanagh, Geoffrey Wheelwright, George Black. Nuala Moran, Tom Foremski, Rod Newing, Martin Banks and George Parker.

Graphics: Robert Hutchison.

appear on the back page of this review.

Mustrations: David Smith (cover) John Springs and Ingram Plnn New subscription service: readers in the FT-IT Review car now ensure they receive their own copy by post. Full details

The next issue, March 6: This will include the following main themes: Converging Technologies in IT and Communications IT Directions: Network Management. Software At World Help Desks.

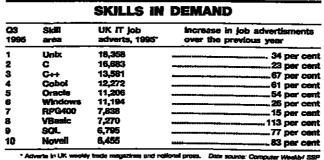
Main themes for the April 3 issue: Focus on Desktop Computing IT Directions: Video and tele-confe Software: statistical analysis and modelling packages in finance and industry.

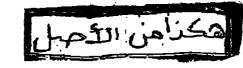
For advertising details contact:

In London: Simon Larter, FT Advertising Department: telephone (+44) 0171 873 4129 or fax: (+44) 0171 873 3062

New York: Gavin Bishop, telephone (212) 745 1342 San Francisco: Nick Mayle, tel. (415) 637 9775

Financial Times, Number One, Southwark Bridge,





EBRUARY?

me ensuring hief executive

Parrongins had o

Special section of a contraction of the contraction

75:51g at 1966. Alley Company of the second s

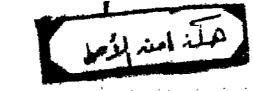
to project for using.

The second could could be at is its time to the company that was chainty of Ross ager E Was tring be Aseli or Gueral the comban of of directors We say and the tree Tim Did et ent the answers on the The American De Program and on the Committee the large of hint in toot at any 2012 521 3 to the 1

By John Karana

15.00

10 S 12 S





The multimedia revolution? at NEC, never.

Multimedia. It will transform the way you live, learn, work, play and relate to your fellow human beings. As digital streams of text, sound and images course around the globe, almost every aspect of life will change beyond recognition. But will this be an overnight revolution? Certainly not for NEC. We started integrating our computer and communications technologies over 20 years ago, shaping their evolution into the new realm of

multimedia. Through long-term investment in research and development, we are playing a key part in the creation of tomorrow's Global Information Society. From multimedia devices to computers to wireless communication systems to broadband networks, we're unique in having expertise in all its aspects. Multimedia will evolve past

any human experience. Trust NEC to guide you.

the multimedia evolution

For further information, please contact: MEC Corporation, Overseas Advertising Division, 7-1, Shiba, 5-chome, Minato-ku, Tokyo 108-01, Japan. Fax 81-3-3798-6333. NEC Europe Ltd. NEC House, 1 Victoria Road, London W3 6UL, UK.

LA DEFENSE



Revolution in the public sector

following eight pages, FT writers show how information technology is becoming crucial to governments around the world

II In the UK public sector

Here and on the

Squeeze on the big spenders

Around the world, central and local governments and public sector agencies are among the biggest spenders on IT hardware, software and services

he public sector has become one of the most dynamic markets for information technology as governments seek to increase efficiency, cut costs, become more 'customer-focused' and respond to the new 'Information Soci-

In the UK alone, 100 government projects with a capital value of around £2hn have been identified under the Private Finance Initiative (PFI), giving some indication of the scale of the new opportunities opening up for the private sec-

Following the lead set in the 1980s by Scandinavia, the US and Britain, governments are re-examining their role: increasingly, they are seeking to withdraw from the direct provision of goods and services. wherever possible, often through privatisation and out-

regional health authorities,

and the handing over of their

IT operations to outsourcing

companies, has created a mar

ket worth £73m a year in 1995,

Four of the top ten contracts

by annual value in 1995 were

in the NHS. However, this may

be misleading because the out-

sourcing companies which

took over the regional

operations had then to win

contracts with the NHS Trusts

to supply the services previously provided by the Regional

Paul Hocking, manager of

health business at Hoskyns.

which won the South Thames

ents a challenge because it means winning husiness from

lots of relatively small custom-

ers. To get the return on

investment you have to get

groups of them to take the

He believes, however, that

the business will grow - "most

of the trusts are too small to

run their own IT and will turn

to the outsourcing partner

when they need to develop new

computer systems". Overall.

public sector IT now accounts

for around 40 per cent of the

two forms: market-testing in

which the in-house providers

must pitch against outside con-

tractors. For example, teaming

up with Logica, the in-house

team won the £100m Customs

and Excise contract.

announced in June 1995. Or

straight outsourcing, where

the in-house team does not

have a chance to hid, as in the

£1bn Inland Revenue contract.

the government centre for

information systems, which

has assisted in much of the

market-testing programme,

John Wright of the CCTA

UK outsourcing market.

Health Authorities.

same services".

RHA co

top ten.

according to l'Inet Index.

"The machinery of government is being reduced in size. through focus, efficiency and the application of information technology," noted a recent report on the UK's Civil Service IT spending, prepared by Kable, the public sector research firm.

At the same time, governments and public agencies are turning to IT to help cut costs and improve the quality of service and value for money which they provide. In Britain, the PFI, Citizens Charter, Local Management of Schools, restructuring of the health service and move to unitary local authorities are just a few of the many structural changes under way in the public sector.

"All place increasing demands on government departments to provide higher levels of service and informa-

tion, more efficiently and effectively while maintaining financial control," says BT Enterprise Solutions, part of the UK-based telecoms group.

"As a result, technology is

increasingly important to today's government departments which look to IT and new data networks to reduce costs and increase efficiency."

Highlighting this, European a total of \$7.86bn on public sector procurement of hardware last year and a further \$16.1bn on software and services, according to European Information Technology Office fig-

In the UK, where the Government Centre for Information Systems (CCTA) advises departments on IT matters. central government IT spending will total £2.31bn in 1995/96, slightly down from the peak of

By Nuala Moran

Reducing costs and risks

Under the UK's Private Finance Initiative, IT companies win contracts to design and build computer systems - but they pay for the privilege. These companies will receive payments for processing work on new IT systems. The attraction for the government is that there is no capital investment - and risks are transferred to suppliers

utsourcing of information technology has become one of the most powerful mechanisms for achieving the UK government's policy of cutting back the public sector. The majority of central government IT is now outsourced, as is much of the computing for the National Health Service. Around 10 per cent of local government IT operations are now outsourced.

At a stroke, outsourcing computer systems which process income tax removed 2,000 civil servants from the government payroll; handing over the IT in Department of Social Security offices achieved a sim-

Britain has the largest outsourcine market in Europe – up to £1.4bn last year from £1bn in 1994, according to market research by the outsourcing company ITnet, in its ITnet Index. This is consistent with independent research, published in the Holway report, which estimates that the market will reach £2bn a year in

entral government now accounts for more than a quarter of the UK market, with the annual value of its outsourcing contracts standing at £353m, according to ITnet Index, or £400m. according to the business strategy consultancy, the Coba Group. However, it is hard to be precise about figures because the government does not keep any overall tally of contracts.

Oliver Walker of the Coba Group says that two-thirds of central government's annual IT expenditure has now been outsourced. On the other hand, he says, the local authority market for IT outsourcing is not so well-developed. Under compulsory competitive tendering, around 10 per cent of local government IT, or £108m a year is now outsourced.

But much more is already planned, as tendering deadlines approach later this year and in 1997 and 1998. Unless the requirement changes, 75 per cent of local government IT will be subjected to compulsory competitive tendering by

In the National Health Service, the dissolution of the ning costs and I believe that is the case in practice." Although cost-cutting is

obviously an incentive, one of the other drivers to outsource was the history of IT disasters, according to John Bateman chief executive of EDS Europe. 'The cry was, 'It's three years over time, out of budget, and we need help'."

Top ten public sector IT contracts awarded in the UK

Listed here are the customers, with annual value of contracts and the year they were awarded: !. Inland Revenue, £120m.

2. Information Technology Services Agency, £82m, 3. Driver and Vehicle

Licensing Agency, Swansea, £25m, (1993). 4. Scottish NHS, £20m, 5. HM Customs and Excise.

The two biggest deals, the £14.3m (1995, in-house with Inland Revenue and the Inforpartner, Logica). mation Technology Services 6. The Home Office, £10m. Agency of the DSS account for (1994). more than twice the value of 7=. Birmingham City the other eight contracts in the

Council, £9m, 1989, renewed 1994. The central government 7=. London Residual Body, move to outsourcing was dic-£9m (1988). tated by the White Paper, Com-8. LOLA, four London peting for Quality. This called boroughs, £8m (1993). for each activity of government 9. South Thames Regional to be reviewed, and either abolished, privatised, restructured Health Authority, £8m, (1995). or opened to the market. Opening to the market takes

> Among other public sector contracts awarded in the UK last year were: Oxford Consortium, 25m. **NW Regional Health** Authority, £5m. London Borough of Southwark, £4.5m. Executive, £3m. London Borough of Kingston and Sutton, Companies House, £2.5m Source: ITNot

Then, in much the same way says: "It was estimated at the time contracts were let that as the builders of the Skye Road Bridge get their return there would be savings of 15-30 per cent against existing runthrough tolls for use of the bridge, the IT companies will receive payments for processing government work on the computer system. The attraction for the government is that

there is no capital investment, and the risk is transferred to the supplier. The first big IT contract to be let under PFI is for the development and operation of Of course, outsourcing exista new National Insurance computer system, known as NIRS2,

ing computer systems does not avoid this problem, but now the government has hit on a scheme that it hopes will succeed - the Private Finance Ini-

Under this policy, IT compa nies win contracts to design and build computer systems, but they pay for the privilege.

> merited by good performance. Although he acknowledges "it would be better to get paid as the project goes along", Jan ing says the attraction of PFI deals is that they are about creating the future. "Traditional outsourcing is rather like undertaking – you mind the asset until it is dead, and

awarded to Andersen Consult-

ing in April 1995. Andersen has

not revealed the cost of setting

up the system, though industry

estimates suggest it will be

The system will become

operational in 1997 and the

contract is due to expire in

2004, but may be extended by

up to a further three years, if

then you bury it." PFI, on the other hand, presents an opportunity to invest in what is right for the future. From a business point of view, this is much more attractive than going into cost-cutting mode to run what was created

in the past." It is government policy to use private finance for all capital expenditure. Other IT PFI contracts now in the pipeline include computers for 20.000 post offices and computerising the Lord Chancellor's Office, which among other activities runs the courts in England and Wales and administers Legal

Using private finance will increase the pace of government IT projects, according to Ron Nield of Mercury Communications. "The Civil Service is averse to risk-taking progress will be inevitably faster with mmercial involvement."

However, the experience to date is that the complications of evaluating PFI deals has slowed-up the already burdensome procurement process, and that it costs at least twice as much to bid for a PFI deal as a standard contract. Meyrick Williams, who is responsible for government business at Computer Sciences Corporation (CSC) believes "this is mainly to do with teething troubles ... PFI is new to all of us, and requires a big change in perspective".

£609m on equipment, £407m spent externally on software, £698m on external services including consultancy, faciliement and maintenance, £130m on telecoms services. £411m on IT staff and £56m on supplies and consum-The biggest spending departments, as in most countries, are defence and health where

£2.36bn the previous year.

The latest figure includes

THE PENTAGON

IT spending accounts for 30 per cent of gross running costs. However, the main growth area in government IT spending in Britain, as elsewhere, in recent years has been facilities management or outsourcing. In the UK, government spending on outsourcing has

jumped from £31m two years ago to £211m in the current fiscal year - "Across the public sector, the provision of IT has been outsourced to a signifi-cant level," say Roy Dibble, director of the CCTA. "It is a trend across the whole of government"

Among the big outsourcing contracts awarded in recent years in the UK. EDS won a 10-year contract in 1994 to run the Inland Revenue's IT services. The first stage, implemented in July 1994 including the department handing over operations of the main tax systems. Under a second phase due, EDS is taking over responsibility for development work, including the development of a

system to support the introduction of self-asse However, with so many large

The battle is on to cut costs in the largest area for IT spending in most countries: del and complex projects in the spotlight, some inevitably hit problems. In the US, for example the Internal Revenue Service's plans to spend as much as \$23bn on new IT systems over the next 12 years has run into criticism from the General Accounting Office - see report,

WHITEHALL

Government IT procurement policy has also changed in recent years. In Europe, for example, most governments once gave preference to nationalhardware vendors such as ICL, Bull, Olivetti and Siemens Nixdorf. However, under EU procurement rules all large contracts must now be open and competitive.

Many in the government, as well as the IT industry, complain these new procedures are cumbersome, complex and add significantly to costs. "To win government contract involves high costs," says Neil Smith, Microsoft's European government business manager. Indeed, many in the industry believe that competitive tendering and other procedures,

largest companies out of the bidding process. Equally importantly, most governments are also moving away from custom-designed software and using commercial off-the-shelf software ('Cots') instead. "In the good old days, departments used to employ thousands of programmers and 'rolled their own' software," notes Mr Smith. "But over the

last five or six years, more and

including PFL actually reduce

choice by pricing all but the

more have moved away from home-developed software" As the leading operating system and shrink-wrapped soft-

ware applications vendor, Microsoft has been a significant beneficiary of this trend in both North America and Europe. For example, under project 'Dawn' the UK Ministry of Defence Procurement Execu-tive's new Abbey Wood head-quarters in Bristol will have 5,000 terminals running Windows NT. Microsoft's enterprise operating system, and the MS Office 95 applications suite — see report, page 9.

ust a few years ago, project Dawn would have been built around a mainframe chine, but in government, as elsewhere, there has also been a marked trend towards downsizing and client/server

Thus, from 1993/94 to 1995/96 the UK government's spending on PCs from suppliers such as Compaq, custom PC builder Centerprise International, Dell and Siemens Nixdorf, rose from £357.8m to £364.7m and they now account for 60 per cent of all hardware spending. In contrast, spending on proprietary mainframe systems has fallen from £106.8m to

£59m, while spending on Unixbased mainframes and minicomputers fell from £106.8m to However, governments remain big buyers of the latest generation of mainframe

machines. In the US, the Office

of Management and Budget

told Federal Agencies last year to begin to close or consolidate small and medium-sized data Such moves enable US gov ernment agencies to take advantage of newer and cheaper mainframe designs from IBM and most of its competitors, including Amdahl, which have shifted from costly emitter-coupled logic microprocessor designs to those based on complementary metal oxide semiconductor (Cmos) technol-

At comparable performance levels these new computers require 10 to 15 per cent of the floor space and as little as 3 per cent of the energy of older water-cooled mainframes.

For example, one study showed that consolidating three data centres into one 300Mip megacentre would save about 35 per cent of the costs

Because of their large spending-power, governments, although traditionally cautious IT purchasers, can also be technology drivers in some circumstances. For example, Spain's Ministry of Labour recently awarded Unisys a \$12.8m systems integration contract to provide hardware, software and services in support of a national social security identification card project. know as Tass. Using a regional network of

public kiosks and personal smartcards, the project will use automated fingerprint technology to provide users

Continued on facing page

■ UK's drive to outsource IT services

By Nuala Moran

Rush for big contracts

Competition has intensified among the larger suppliers of outsourcing services in the

public sector n the early days, outsourc-ing – or facilities management - was regarded as rather menial, and snidely referred to as "box-minding".

Today, however, outsourcing is the most fashionable activity in IT and almost every company in the industry is busy re-inventing itself as an "outsourcing business". For example, IBM, the computer giant, created an outsourcing division in 1992; Bull Information Systems set up Integris in 1994, and last year Siemens Nixdorf established Stemens Business Systems as a distinct outsourcing unit.

Much of this metamorphosis has been prompted by the government drive to outsource IT, which has seen mouthwatering contracts up for grabs. The largest UK contract awarded to a single supplier, to operate the Inland Revenue computer system, went to the outsourcing market leader, the US company EDS in 1994. EDS responsibility to meet all Inland Revenue's current and future IT requirements in the

In 1995, a further L500 UK government employees were transferred to EDS when it

won a share of the largest IT outsourcing contract to have been let by the UK government, the Information Technology Services Agency (ITSA) the body that runs the computer operations of the Department of Health and Social Security.

EDS's turnover topped the \$10bn turnover mark last year. The importance of outsourcing is demonstrated by the fact that more than 50 per cent of its 80,000 worldwide workforce joined the company through outsourcing deals. And the value of its business with the UK government is highlighted by the fact that of 16,000 staff in Europe, it acquired 3,500 through the Inland Revenue and ITSA deals. EDS also handles the IT side of the Driver and Vehicle Licensing Agency in Swansea. EDS shared the ITSA con-

tract with the French/British company Sema Group, which last year made £174m of its im turnover from outsourcing. While EDS will operate ITSA's mainframe processing centres. Sema is responsible for the desktop computer systems in DSS offices around the country.

Other large central govema also won one of the ernment contracts let last year, the £50m deal to provide IT services for the Home Office. This includes computing for the Prison Service, the Passport Agency and the Forensic Science Service.

The third partner in the ITSA deal, ICL Sorbus, (a venture created in February 1995 to exploit the outsourcing market), will be responsible for data communications, including software distribu-

ICL has a better-known outsourcing arm, the CFM Group, leader in local government outsourcing, with over 50 per cent of the contracts let to date. CFM had a turnover of £120m in 1995, of which 45 per cent was in local government.

The 'number two' in UK local government outsourcing is ITnet, with 25 per cent of the market by value. The company, which recently became independent of its parent Cadbury Schweppes through a management buyout, has 900 staff and had a turnover of £50m in 1994.

The other company to have a significant share of the local government market is Capita Managed Services, part of the Capita Group which employs 900 staff and had a turnover of £74m in 1995.

The abolition of the UK's regional health authorities has created another growth area for IT outsourcing. The largest contract in 1995 for the NHS in Scotland went to the US company Computer Sciences Corporation - CSC employs 33,000 people worldwide and had a turnover of \$3.8bn for 1994-1995.

The company now has annual revenues of more than annual revenues of more than with the support of the vices company, Logica.

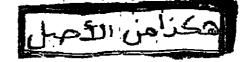
including defence. The largest health authority contract in England and Wales, for the South Thames RHA, went to Hoskyns, the UK arm of Cap Gemini Sogeti, the largest European computer services company with 20,000 staff and revenues of over £1.2bn in 1994. In the UK, Hoskyns employs more than 4,500 people, a rise of over 750 in 1995, and has announced plans to

recruit a further 500 in 1996. ne of the most significant government outsourcing contracts, to set up a new National Insurance computer system, does not appear in any league tables, because its value was not revealed. This contract, won by the management consultants Arthur Andersen, is the first under the Private Finance Initiative.

Andersen will design, build and pay for the system, estimated by the industry to cost more than £100m. The company will then receive pay-ments from the government linked to the volume of business it processes. The system is due to start operating in 1997. Andersen's contract runs to at least 2004, and possibly 2007.

But not all the UK's larger government outsourcing contracts have gone to outside contractors: one of the biggest, at HM Customs and Excise went to the in-house team. with the support of the IT ser-





SRUARY?

*(中/月) 元3-B()兵 **國**(東

F STATE STATE

 $x_{\rm constant} \approx 1000000$

Contract to the life is

Debes &

AT THE REPORT OF

The state of the

23.02

De - Sherry Man and

Complete Plant

i - i - i - i - i i - i i e i e i

- Me :

20 -52 - --20 -52 - --

1.7 209

The Area of the second second

1 15 86 1 12 86 1 12 86

1 + 30 ± 4

Ministry of St

1 1 12

is a section in

1 2 Jun 1 7 Ta

Section 15

200 1100

5y Nuala ₩

de bir edirin. 🖼 🏁

the Marie Hall 188

en là stell

port State in life

The state of the s

How.

the time

وهلد إلى ويد

Ter Jul id E

Com Variotal IE

in in take u

Andreas Andreas Andreas Andreas Andreas Andreas Andreas Andreas Andreas

destants

in ration for the country of the country

THE RESERVE OF THE PARTY OF THE

A COLOR OF THE PROPERTY OF THE

" · ""

the state of the s

· - (20 4)

The political impact of information technology

How IT delivers more power to the people nformation technology has been a political not potato since the mid-1960s when

the UK's former prime minis-ter Harold Wilson linked the future of Britain to the "white dation for the spectacular heat of technology". growth of the IT industry. IT Through the 1960s and 1970s. was seen as a strategic indusgovernment initiatives aimed try and, in the same way that at promoting indigenous IT any worthy country had to industries were a regular feahave its own "flag-carrying" ture of political manifestos across the western world. This, of course, was the time of the Cold War and massive military spending - much of which

the Cold War, military spend-

by subject or chronologically

along with links to how other

Congressmen voted on specific

There is also a performance

evaluation by special interest

groups, as well the politician's

responses to Vote Smart's own

questionnaire, the National

Political Awareness Test, if

they are up for re-election in

In December, twelve out of fifteen Republicans seeking

their party's presidential nomi-

nation agreed to submit

answers to Vote Smart ques-

tions on a range of policy top-

ics. Buchanan, Fletcher and

Forbes were the "flunkees", while the responses of the oth-

ers can be read at the Web site.

partisan, its new service Con-

gress Track allows citizens to

monitor specifically the activi-

ties of those Republican mem-

hers who signed up to the

"Contract with America" at

Financial data on the candi-

dates is provided by the

National Library on Finance in

Politics, a non-partisan organisation which gets its informa-tion from the Federal Election

Committee, to which candi-

dates and PACs (political

"The entire effort is aimed at

providing tools to ensure public accountability by elected

officials to those they represent," is how the project defines its mission; and its site

is also a rich resource of

related links to other news and

political information - like

Congressional Quarterly's

Campaign Watch bulletins, as

well as a guide to where you

can cast your virtual vote and

take part in online political dis-

Although it is held in high

esteem by political insiders, it

is the incredible number of

ordinary voters who are using

the service that is the best tes-

timony to its success and

endorsement: "I am a divorced,

unemployed mother of two small children. I think your

project is wonderful and long

overdue. I wish I could contrib-

• To contact Project Vote

Smart if you do not have Inter-

net access, write to: Project Vote Smart, 129 NW

Fourth Street #201, Corvallis,

Oregon 97330; or from inside the

US you can call toll-free on

"PS. I have decided I can't

ute, but I just can't afford to.

afford not to."

One user left the following

cussions.

the 1994 mid-term elections.

Although it is fiercely non-

the last or current cycles.

■ Project Vote Smart

went directly into IT projects.

This helped to lay the foun-

Lifting the lid on US politics

Stephen McGookin looks at what is called 'a voter's self-defense system'

ust as governments are increasingly using the Internet to distribute information - either purely factual or with their own particu-🏂 lar "spin" – citizens' groups have just as expertly used the technology to let politicians know they do not have everything their own way, and keep

tabs on their performance. One of the most successful is Project Vote Smart, a way of electronically taking the lid off what is happening in the confusing and sometimes downright murky world of US politics. And that is exactly what the graphic on its World Wide Web home page (www.vote-smart.org) represents, with the slogan: "It's time to look in on the hired help."

Vote Smart, which calls itself "a voter's self-defense system," provides access to a huge array of information on elected officials and candidates for national office and gubernatorial posts all across the US.

The project is the main programme of the Center for National Independence in Politics, housed at the Oregon State University campus in Corvailis, and was set up in

In the course of that election year, it handled more than action committees) must, by 200,000 telephone requests for law, report. information, with 34,000 calls on election day itself.

ote Smart is funded by individual contributions and by money from various non-partisan foundations such as Carnegie and Ford. Since 1994 - the year it went online - it also has an eastcoast office at Northeastern University in Boston.

Its honorary co-founders are two former presidents; Democrat Jimmy Carter and Republican Gerald Ford. Among the founders are former Democratic Presidential candidates Michael Dukakis and George McGovern; as well as current Republican Speaker of the House Newt Gingrich and former GOP Presidential candi-

date Barry Goldwater. Such a mix of unlikely political bedfellows serves to emphasise the impartiality of Vote Smart and, like its nearest equivalent in print, the venerable Almanac of American Politics, its increasing indispens-

US Congress members are listed alphabetically and stateby-state. What you get when you call up a Senator is a list of committees on which they sit, a list of their sources of campaign funding, details of thek-voting record - arranged

airline, every industrialised country saw itself as a contender in the emerging IT industries. During the 1980s, the end of areas where they had a histori-

ing cuts and the emergence of

new forms of IT through the growth of microprocessors, changed this dramatically. Most countries, for example, gave up any pretence at having their own chip-manufacturing capability and concentrated on

In the 1990s, attention has switched from the competitive production of IT products to gaining competitive edge through the use of IT. The recent enthusiasm among politicians across the northern hemisphere for the so-called information superhighway is based on using IT effectively rather than producing worldbeating products. We've had three ages of IT

the first two characterised by hardware and the most recent by software," says Mr Mark Gladwin of the UK's Central Computers and Telecommunications Agency (CCTA). "The mainframe era was about sharing scarce resources and automating things that we understood. The PC era was about surrounding the main(rame with personal computers. Since about 1992 - when the network allowed us to link hardware

together and the Internet gave and sees current iT developus a way to break out of the hardware, attention has moved to software.

"We have gone past the era when the technology was an impediment and we can start thinking about finding the most cost-effective solutions,"

Mr Richard Spook, UK managing director of the French computer giant Groupe Bull, says that politicians' attitude to the use of IT in government are changing: "Apart from strategic necessity, the emphasis is on the use of IT in gov-ernment administration. Government departments are seeing IT as a way of doing things differently."

Wider access

This, be adds, is partly the result of pressure from citizens who have become more computer-literate - "future populations are not going to be happy about handling government bureaucracy in the way they have in the past. They expect something better now."

Mr Andrew Miller, Labour MP for Ellesmere Port and Nes-

ments as a challenge both to government and to politicians: For the first time, IT will empower people lower down the structure of government. Civil servants have greater access to information across departments. This challenges the traditional vertical integration of government administration where information only meets at the top at the Cabinet level. IT means that discus

'As citizens who have become more computer-literate, future populations are not going to be happy about handling

lower down the hierarchy." In the UK, the Central Information Technology Unit (CITU) has been set up to look at the possibilities IT offers in this area and, although Mr Miller is unconvinced about its short-term success, he accepts that it is an idea that should be pursued.

sions can be better managed

"I don't believe there is the political will at the ministerial rel – but I believe it should be developed. It could lead to public services benefits at the local level so that cross-departmental issues can be handled more effectively and more sensitively," he says. Mr Miller is a director of



tion of MPs. MEPs and Peers together with corporate members which was set up in 1995 to advance the UK's contribution to pan-European IT activities. One of us key mies is to improve the level of information available to politicians on IT issues.

"It's about building a bridge

the private sector so we are which uses IT to show how against a background of what is really happening. We can then go back and advise our respective parties," he explains.

International co-operation on IT issues is also growing as they all face similar problems in re-engineering their national IT infrastructures. Early last year, the G7 countries initiated several co-operative projects aimed at pooling IT experience in the context of government. The Government On-line

project, proposed by Canada and sponsored by the EC, is one of the largest. It covers several areas of IT development, each sponsored G7. EC members and other countries such as Australia, Sweden, Switzerland and Israel.

The aim is to exchange information on the ways we are doing things in IT. Use of electronic mail for communications within government, online information services so people can see what is going on and interactive information kiosks," explains Mrs Ruth Kerry, co-chair of the project,

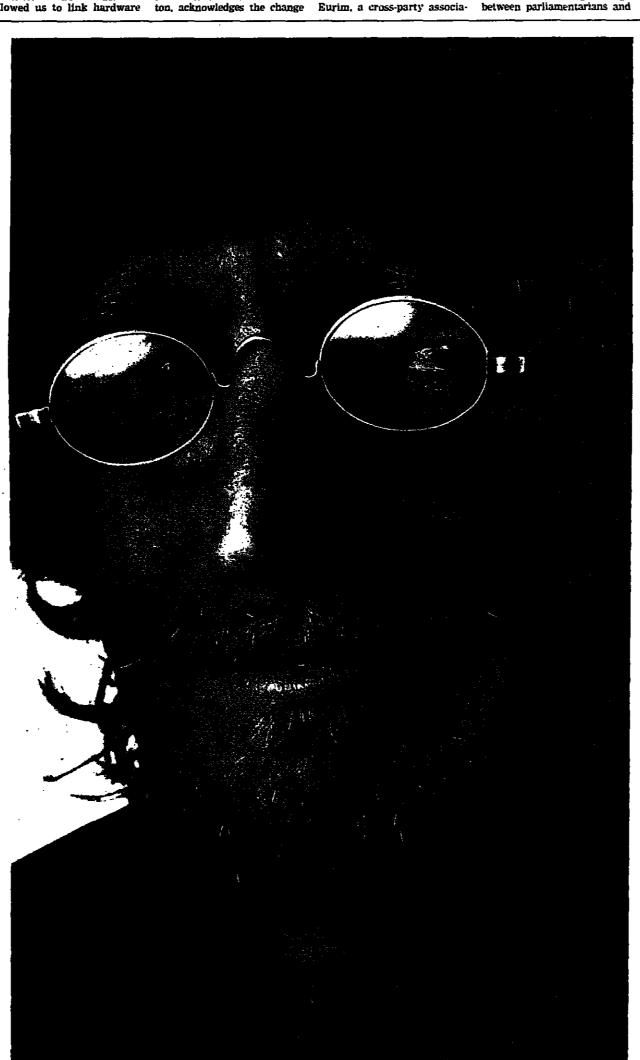
government administration -"we're using a variety of technologies – such as Adobe Acrobat to exchange documents and Picturetel for video-confer-

Examples also include the governments recognise that use of directory services to set up standard government directories with the X.500 standard which is sponsored by Canada and sharing information across departments, which is being

The US is looking at "onestop shop" strategies for delivering government information to citizens and Japan is looking at the on-line provision of licences and permits.

Other projects include online support for democracy (Sweden) and a compendium of government activities in IT

in the long term, the results of these projects will filter through to government administration - although they will not be without a political dimension. The vertical struc tures of government will not give in easily to the new wave of IT. But that is another story.



"I'm going to CeBIT'96 to see how IBM helps plan, manage, and run the Olympic Games. Not that I really need a good reason to leave Siberia in March"

No matter where you come from, there's one place you should visit at CeBIT 96: The IBM stand.

There, you'll find a wide range of innovative products and solutions, from our pen-based ThinkPads to advanced multi-media. You'll also discover the power of Network Centric Computing. And you'll see how the technology IBM developed to plan, manage, and run the Olympic Games can help you plan, manage, and run your business.

It's an excellent reason to leave the house. To find out more, visit our web site: http://www.ibm.com/.



Better public services

Continued from facing page:

with secure access to personal information stored on smartcards, as well as government healthcare databases.

Governments are also beginning to adopt innovative approaches to IT management. In Britain, the Ministry of Defence has forming the first defence information systems agency, the Logistic Information Systems Agency (Lisa). under Brigadier Alan Pollard, chief executive.

Formed out of the army's logiștic IT directorate, Lisa intends to sign partnership agreements with commercial companies to look for new business in other defence and

Weinment departments. On both sides of the Atlantic. tients and public sector agencies have also discovered that a futernet can be a powerful to for satisfying their commission to open govern-ment disseminating the was sides of information

They are also actively exploiting the potential of elecronic commerce, for example brough EDI ordering systems

tronic mail. In Brussels, for example, Logica, the UK-based computer services group, is helping advisory committees and working groups improve their e-mail communications via the Interchange of Data between Administrations (Ida) programme, which aims to build a trans-European public administration network.

More generally, as the CCTA says in its latest annual report, "the development of new applications for IT, especially information superhighways, promises a revolution in public services over the next ten years. Services should become easier to use, quicker and better targeted".

But the Agency also adds: "Possibly the greatest challenge will be managing information so that it can be used in sensible ways. The mechanisms to achieve this must be built into plans for (government] IT . the superhighway is not here yet, but existing technology can do much to improve services - the challenge is to use it in a way which helps and empowers the

By Tom Foremski in Forestville, California

■ US Internal Revenue Service

Big IT modernisation plan runs into fierce criticism

Outdated systems in the US lead to billions of dollars being lost in in uncollected taxes

he US Internal Revenue Service (IRS) is undergoing what is the largest civilian computer modernisation programme in history. Starting in the late 1980s, the agency expects to spend as much as \$23bn on new IT systems by the year 2008.

But like all complex projects of this kind, the Tax Systems Modernisation (TSM) project has run into big obstacles and problems, including strong criticism from the US General Accounting Office (GAO) that it suffers from numerous technical and management problems and that taxpayers' money is being wasted.

The IRS currently relies on an antiquated computer system in processing about a billion paper documents and over 204m tax returns a year. It mostly uses mainframe computers from the 1960 era and a tax processing procedure that has changed little over the past 30 years. The IRS estimates that its lack of modern IT systems is partly responsible for its failure to collect about \$114bn in taxes each year.

The agency says it needs new IT systems to help it process a vast amount of paper documents and gain ready access to the information on those documents. For example, months to find paper-based tax



The US Congress threatens further cuts in the Tax System Modernisation project, although outdated and inefficient IT systems result in billions of dollars in taxes remaining uncollected each year

The IRS has already spent \$2.5bn on new computer

systems, and it says its investments have already yielded valuable results. It has: of tax returns for individuals

and businesses. ☐ Improved access to tax records by installing thousands of new terminals. ☐ Brought in new optical

image document processing

systems. ☐ Managed to recover billions of dollars in taxes through the use of its new

□ Reduced fraudulent claims for tax refunds. Despite the fact that for every \$1 it receives in government funding, it can produce \$3 in tax revenue, the IRS has nevertheless had to continually battle cuts - and threatened cuts - in the TSM project by the US Congress. This is mainly due to the watchful eye of the GAO which says that the IRS does not have a good business plan for upgrading its computers and that its goals are not well-defined or well-ad-

ministered, "IRS does not have

a comprehensive business strategy to cost-effectively it has not yet fully developed and out in place the requisite opment and technical infrastructures necessary to successfully implement an zation effort like TSM," stated a GAO report released late last

The GAO has placed TSM on its list of high-risk government IT projects which means that it will be under close scrutiny over the next few years to make sure it is on track and fulfils its obligations.

The TSM project is complex. It consists of at least 50 modernisation projects which

includes:

The \$1.3bn Document Processing Systems project, which aims to convert all IRS tax forms into electronic images that can be more easily distributed to all IRS tax offices. This project is scheduled to be competed in the year 2000.

□ The Corporate Systems Modernization/Mirror Image Acquisition is focused on replacing older mainframes at key processing centres and is valued at \$88m.

☐ The Treasury Multi-user Acquisition Contract is a \$1.4bn project to make it easier to request tax information from IRS staff.

☐ The \$500m Integration Support Contract is a ten-year project that will ensure that all information systems elements of TSM will work together. However, the GAO has already identified three large pro-

By Louise Kehoe in San Francisco, California

A key role likely in US presidential election

Politicians are increasingly using the 'Net to communicate with potential voters

The miaow of Socks, the White House cat, may not be very different from that of other felices. Featured as one of the attractions on the White House "home page" on the World Wide Web, it includes updates on the stathis sound has, however, been tus of pending Bills and the transmitted to computer users all over the globe and helped to draw attention to growing US government use of the Inter-

Whether visiting the virtual White House or searching through the Congressional Record in the Library of Congress's Thomas database, Internet-users now have access to vast amounts of US government information, much of it free of charge.

US politicians are also increasingly using the Internet to communicate with potential voters and the new medium is expected to play a significant role in this year's presidential For business users the Inter-

net offers a convenient and quick method of accessing US government data that might otherwise take weeks to obtain through conventional library sources. However, the huge quantities of data at US government sites create a challenge for anyone attempting to find answers to specific ques-

A good starting point for Internet users exploring US government resources is Fed-World, one of the most comprebensive US government Internet sites (http://www.

Maintained by the National

(NTIS), an agency of the US Department of Commerce, Fedworld is packed with information and links to other US government as well as offering search facilities. Thomas (http://. /thomas.loc.gov), provided by the Library of Congress, is the source for information about US legislation and Congressional debate. As well as providing the text of all legislation passed by the 104th Congress. full text of the Congressional

Register. The American Memory Proj ect, another Library of Conress effort, provides Internet access to more than 30,000 digital images, manuscripts, motion pictures and sound recordings. It can be reached via the Library's home page (http://www.loc.gov)

The Web Interactive Network of Government Services (Wings) program, managed by the US Postal Service, aims to make it possible for individuals to conduct personal business with the government electronically. Whether it be filing taxes or registering for a driver's license, or to vote.

Users will access Wings from their own PCs or from public kiosks. A prototype system, linking 1,500 US government WWW sites is scheduled to begin testing in early 1996.

The Federal Web Locator (http://www.vill.edu/Fed-Agency/ feducebloc.html) is a search tool that can be used to find information from various federal agencies. Another popular US government site on the World Wide Web is the Census Bureau - (http://www.census.gor) which provides a huge economic statistics for the US.

Users can search for population, housing and economic statistics for counties, states

the Internet, access your e-mail or send and

and metropolitan statistical areas as well as US regions.

The Census site also offers additional information in the form of "statistical briefs," which are concise analyses of social or economic trends such as the growth of the elderly population of the US.

The US Government Printing Office's home page (http:// www.access.gpo.gov/) is similarly a goldmine of valuable information for businesses, and



is updated daily.

Those looking for a quick route to riches might do better. however, to check out the Federal Bureau of Investigation's 'Ten Most Wanted' list, complete with photographs, on its (http:// pages www.fbi.gov/toplist/html).

And for those obliged to give Uncle Sam his share, the Internal Revenue Service has a WWW site with tax forms and answers to frequently asked questions (http://www.ustreas.gov/ treasury/bur-

Critics charge that the US government has not moved quickly enough to establish Internet sites to disseminate information. However, it is clearly moying faster than most other national governments to demonstrate the advantages of electronic pub-

In the political arena, WWW sites provide every flavour of opinion as well as basic voter information. The official "Bob Dole for President" site (http:// www.dole96.com;), for example, offers biographical information and will track the Republican senator's progress through state primary elections and regional caucuses.

Phil Gramm, another Republican hopeful, provides video and sound clips on his election campaign on Internet site (http://www.gramm96/org) as if to prove that he is in the forefront of new technology.

Politics USA, a joint effort of the National Journal and the American Political Network. provides links to all of the candidates WWW sites as well as news updates.
About 30 US senators and

more than 40 members of the House of Representatives have established sites on the Internet. Democrats claim to be the majority party in cyberspace. despite their minority role in "real life".

For those who distrust all politicians, the Skeleton Closet, a WWW site dedicated to publishing "dirt. attitude and opinionated character reviews of all the presidential candidates" (http://www.realchange.org/) is not to be

Some of the best jokes about the presidential election campaign can be found at the headquarters of Scampaign '96 (http://www.comedyusa.com/Home.html).

grammes that are "incompati-ble" with the overall TSM proj-

Electronic filing is a key part of TSM and its goal is to process 80m tax returns electronically by 2000. However, this programme has run into problems and the rate of electronic filing is falling. This is partly due to longer processing of tax refunds because the IRS discovered that more than 40 per cent of fraudulent tax returns asking for a tax refund were filed electronically. In response it has stepped up scrutiny of electronically filed tax returns and delayed refunds.

that some parts of the TSM project have run into prob-

While the IRS has admitted

■ Procurement credit cards

lems, it points to significant savings it offers. progress that has been made. Electronic filing, for example, continues to grow, cutting the amount of paper documents the agency handles and also helps to reduce the almost 15m maths errors normally found

The IRS has also made it easier to file simple tax returns through its TeleFile programme which allows individuals to use a touch-tone phone to file a simple return.

And new programs for corporations, such as the Taxlink program, allows employers to deposit payroll taxes electronically and is growing in popularity as companies realise the paperwork processing cost-

The IRS also offers the Fed-World on-line information service which gives access to tax forms and information on tax regulations to anyone with a personal computer and a

The agency's Automatic Under-Reporting system is helping to recover new tax revenues by automatically matching financial information from financial institutions and employers, to individual tax returns. This catches individuals who are under-reporting income and is expected to save \$160m over the next seven

A chief goal of TSM is to make it easier for individuals

to file tax returns. The IRS says that it only has about 83 per cent compliance among people who are required to file tax returns and the agency believes if it can simplify the tax-filing process, it will have much better rates of compli

The ideal scenario is to allow the IRS to quickly assemble all relevant tax data for the taxpayer. But to do that, it would need access to financial records held by banks, credit card companies, employers and savings institutions. But to attain this goal, the agency would have to battle criticism of "Big Brother" ambitions, in addition to the criticisms it

Plastic route to big savings

US government leads the way in cutting the cost of procurement

he US government has pioneered the use of credit cards issued to staff members to purchase supplies and dramatically cut the cost of procurement - a lead that US corporations are rapidly following.

Known as procurement cards, these are credit cards issued to staff members by American Express, Mastercard and Visa. These enable staff to purchase low-cost supplies directly and bypass most of the normal procurement paper-

In most organisations, if an office manager, for example, needs to order more floppy disks, a requisition form is filled out, it goes for approval, then is handed to the purchas ing department. A supplier is selected, a purchasing order (PO) is filled out and despatched.

Later as the goods are received, a receive notice is sent to accounts to match the PO and invoice, and a cheque is issued. Then accounts tracks the cheque to make sure payment cleared.

This common procedure can cost anywhere from \$50 to \$300 per purchase request, which is high overhead for an item that might cost only \$20. It also extends the procurement time to about three weeks on average. The advantage of procurement cards is that much of the paperwork can be eliminated and thus save US government agencies substantial amounts in document processing.

The US government's use of

procurement cards began in 1989 with the US General Services Administration (GSA) granting a contract to First Bank System to issue special Visa cards to government employees for making small

purchases. The government staff were issued an Impac (International Merchant Purchase Authorization Card) Visa card. Under the first part of the five-year programme, 65,000 government employees were issued with the card. When the programme was renewed in early 1994, there were plans to add an additional 75,000 staff who are

authorised to use the card. "The Impac program has been very popular," says Coleen Lindow, director of corporate cards and purchasing at Visa. "The success of the federal programme has drawn interest from state govern-

Comparisons

Unlike the private sector, where procurement cards are limited to purchases of typically under \$250, the US government defines a "small item" purchase as \$25,000 or less. However, not all suppliers are set up to take credit card orders, especially since they have to pay a transaction fee to the credit card company.

"It has been a challenge recruiting suppliers," says Lindow. "But they quickly realise that it can bring them new business and also they get paid much more quickly.

'When you say to a supplier: 'We will pay you in three days - and take all the risks', they quickly see that it's better than waiting 30 days or more for

While procurement cards are used like regular credit cards. they are restricted in what kinds of products and services can be charged against them. Visa employs a four-digit merchant category code based on similar codes used by the US government in classifying suppliers. Each card is restricted to certain types of merchants.

'You can't, for example, use the cards to charge for hotel or restaurant expenses. And you can't book an airline ticket with them," explains Lindow. Each government Impac Visa card is programmed with the spending limits and approved merchant categories that each individual is authorised to handle. Currently, their use is limited to maintenance, repair and

routine operating purchases, but there are plans to extend their use. The US government says it is saving money, although it has not released details on how much it saves per purchasing transaction - "the government could save more money if it wasn't for the enormous amount of rules and regulations that it has surrounding

the use of procurement cards.

says Steve Kopp, a consultant

on procurement card use at

Gunn Partners. One of the disadvantages of procurement cards is that companies are often not able to collect as much data on the purchase as they normally receive through a normal PO cycle. All the credit card companies are striving to improve data capture and a key element is capture of sales tax data, or in the case of the government agencies, making sure that they don't get charged for sales

"Data capture is a big issue,"

not only have to supply merchants with special terminals but it also means that the merchant has to key-in additional data rather than simply record your credit card number.

"For some merchants with low-paid staff, there isn't much of an incentive for them to key in that data and you might not be able to trust that data."

Many merchants are now beginning to view acceptance of procurement cards and the additional data capture requirements as a competitive opportunity in doing business with the government or corpo rations.

Ropp points out that the use of procurement cards is not "a one-way street - the suppliers benefit, too".

Less paperwork

Suppliers can eliminate a lot of paperwork at their end, if they decide to accept procurement cards - "this can, make up for the installation of extra equipment and staff training. Plus, they get their money a lot quicker," says Kopp.

Much of the data capture through better software and links between computer systems that can send data between suppliers, banks and government agencies. The credit card companies

benefit from procurement cards in that they can sign up new customers both at the user end and among suppliers. US government's use of **@**.ocurement cards is also helping to lead the way in the private sector where procurement card use is rapidly expanding and

By Geoffrey Wheelwright

saving millions of dollars in

■ Boost for US IT companies

Government and industry co-operate in advanced PC hard disk development

s a joint project of industry and government, work is under way in the US on the development of a credit card-sized hard disk so fast, so light and so low-powered that it will provide one gigabyte of storage (about the same capacity as the hard disks in today's desktop

inside a hand-held personal computer. The work is being led by the California-based -hard disk drive-maker Micropolis in a joint development with several other technology companies and partially funded by the US government. According to the

systems) that can be used

project leader at Micropolis, Mr Eric Dunstan, the \$20m research programme is being 50 per cent funded by the US Advanced Research Project Agency (ARPA) under its Technology Re-investment Program (TRP) as an attempt by the Clinton administration to boost the fortunes of US technology

"Data storage was considered a strategic area for the administration." explains Dunstan. "The basis of this is the creation of dual-use product the investment will cause two things: it will sponsor commercial developments and also make more cost-effective and more immediately-available defence projects.
"What is different about this

is that they've decided to support only 50 per cent of the cost. The first impact is that this industry is having to put some of its own money in - so

we will develop projects we were going to develop anyway. but bring them forward. This is being used to accelerate state-of-the-art products by about two years. "What the government wants as an end-result is a disk

drive. In pursuit of that, we

will have to develop compo-

nents for this on a fast track." artners who will work with Micropolis on the component development for this project include leading hard disk controller makers Adaptec, electronics designers Silicon Systems and CalTech at UCLA. The drive will be used

in palmtop computers (gener-

ally known as personal digital

assistants - or PDAs) and

what Dunstan calls "tactical

digital assistants". He says they will be used in the tactical area to store large and detailed computerised

maps of battlefield area for display on the PDA - even to the point of using a "head-up display" (or HUD, used in aircraft to present flight instrument data in front of pilots in a way that allows them to simultaneously look directly ahead out

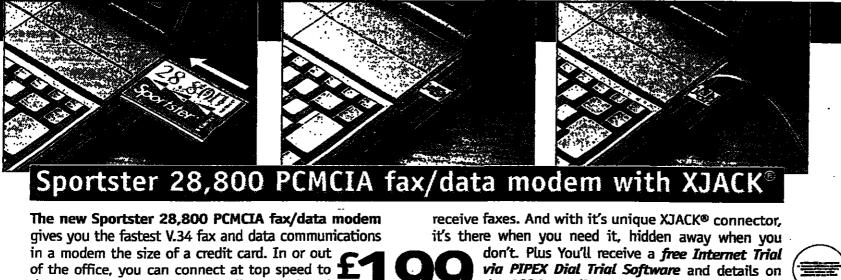
of the cockpit). This HUD would project an map image taken from the PDA's hard disk to superimpose on the real landscape -and could be linked to a global positioning system (or GPS) to accurately pinpoint the location of the user before pulling up map data. Another important aspect of the project was that a government condition for the funding included a commitment by Micropolis to commercialise this product ucing a "techno "technology demonstration" within two years and a shipping product

Continued on facing page

PCMCIA Modem

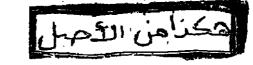
TEL: 01734 228200 FAX: 01734 695555

PLEASE SEND ME FURTHER INFORMATION ON THE sportster 28.800 pcmcia fax/data modem with xjack*



FREEPHONE 0800

Postcode: FT016X U.S. ROBOTICS LIMITED, 650 WHARFDALE ROAD, WINNERSH, WOKINGHAM, BERKSHIRE RG41 STP.



via PIPEX Dial Trial Software and details on

the ACC Long distance - Low Cost Call Service.

FT-IT

IT in government

Transition to resource accounting

By Rod Newing

Move to on-line on-time systems

Commercial software packages are assisting with a massive change in central government accounting

BRUARY 7 IK

o:estville, Califat

The returns have and the complete and th

ing statement to A

CT of a displication is to be a second of the second of th

the second of the second

Littles employees

Littles emplo

Datify also

The Manuel

THE THIRD

By Tom Foreign

ii i par ii timatu thaa;

Total a

January Hills

The Use of the

the state of the s

the cord name

THE TRANSPORT OF

the state of the Be

the second of the let

and over ordinaring.

and in the more stage

7 7 7 19 E 乖 111 7 - 1 - 1 - 1 - 1

7 . CE 100

77777 2 m

the street of the sense

'ss paperwork

20,000

Geoffrey Wheelwijf

ure

MCIA Modem

JEMATION ON THE

A MODEM WITH XIND

M

n the biggest change in government accounting since William Ewart Gladstone - the 19th century British statesman - introduced the current system in 1866, central government is in the process of adopting UK generally accepted accounting practice,

Described by the Chancellor of the Exchequer Kenneth Clarke as "a major milestone in modernising the state," the implementation of commercial accounting packages is playing a key role increasing public sector efficiency.

Central government will introduce resource accounting in most departments by April 1, 1997 and in all departments by April 1, 1998, with resource budgeting following by the year 2000. Resource accounting involves normal accounting procedures, including recording fixed assets and accruals. The concepts of resource accounting have already been proven in the executive agen-cies, which have implemented standard accounting packages to manage themselves on a commercial basis,

Most government departments are using old legacy mainframe systems which were designed specifically for ash accounting, as laid down in the Exchequer and Audit Departments Act of 1866.

Each department is making its own decision on the software needed to implement resource accounting and many are choosing to implement a commercial package. These are proving to be ideally suited for all the departments' new

The main problem lies in the need to continue to report to Parliament on a cash basis until the full implementation cycle is complete. Commercial packages can produce the summary level cash figures which the Treasury needs to retain control through Public Sector Borrowing Requirement target, but they do not all cope with detailed reporting on the existing cash basis.

The problem lies with the way most accounting software is written, with cash details retained in a separate purchase ledger from cost details in the reports on a cash basis need to report on information split between the two ledgers.

Oracle, which is strong in central government accounting systems, is one of a number of vendors who have been able to build additional "cash vote" modules which can generate the necessary additional cash reports from the two ledgers.

Cash-based reporting is much simpler for those accounting vendors who have written their software to utilise a single combined ledger. This unified ledger identifies each individual account as either being either nominal, revenue or purchase and is far more flexible for many accounting requirements. Systems Union, the market leader in executive agency accounting systems, operates a combined ledger, as do Coda, SquareSum and oth-Progress so far is encourag-

ing - "this is one of the most significant changes in the process of government this century," says Mr John Garnett, director of resource management strategy at the Ministry of Agriculture, Fisheries and Food. "We have successfully implemented Oracle Financials, modified to accommodate

nominal ledger. Detailed dual cash and accrual reporting, and are well on the way to delivery of resource based accounting and budgeting

within the timetable." Introduction of new accounting systems have not posed any additional problems so far. despite the number and scale of projects undertaken. "We had the usual problems

of hardware and software not being as compatible as we were led to believe," says Mr Ian Elrick, head of accounting services at the Department of the Environment, who are using software developed for the Australian government, "Most of the vendors stretched the truth a bit in their responses."

nother problem arises from the departments' lack of knowledge of commercial software - "the sarly tenders we received clearly showed which system was currently being used," says Mr Laurie Mascott, director of the government division at Systems Union.

"Departments were trying to specify their current system with the addition of accrual accounting. They now have a better understanding of what commercial software can offer and are being less restrictive in

their requirements it would be rately, which effectively means a mistake to replicate the current systems."

"Some departments are taking the opportunity to overhaul their internal systems as part of the exercise," says Mr Richard Knight, of the Treasury's resource accounting and budgeting team. "They are able to draw on the example and experience of the Executive

Agencies." Resource accounting will require departments to identify and value assets so that they can be capitalised and depreciated by the new systems, reflecting their economic significance - "this process has been considerably eased by existing initiatives to identify assets," explains Mr Knight.

Separate from the accounts. the White Paper requires a meaningful analysis of output and performance from each department and a report on the achievement of its objectives. The focus on outputs suggests that activity-based costing may be involved, which may require the use of one of the existing specialist ABC software packages.

"Resource accounting is accrual accounting with objectives," says Mr Mascott. "Outputs are to be reported sepa-

the introduction of activitybased costing."

mated."

However, the main challenge has been generating accep tance of the new ways of working which these new systems involve. Civil service users have been trained in the Gladstonian way of thinking and have to adopt new philosophies and ways of working with their

"Neither the accounting nor the IT is fundamentally difficult, if managed properly."

"The real problems lie in changing the culture. The chancellor has described us as measuring our performance by the rate at which we burn £10 notes. The new performance measures are intended to represent our equivalent of 'profit' in the private sector and to demonstrate that we are delivering value for money." adds Mr Garnett.

"The challenge is to combine an effective management cul-ture with the existing intellectual culture of the Civil Service. Activity Based Costing is

The problems this may cause

are hinted at in the White Paper, which says that "the difficulties are not under-esti-

new systems.

Cultural changes are assisted by better management reporting and "access to information through drill-down," says Mr Elrick "People can now run their departments from their desks. On-line on-time is the main driver that commercial accounting systems can offer to the process of cultural change and we are moving forward very rapidly."

"This is an exciting develop-ment for central government." says Andrew Likierman, head of the Government Accounting Service. The challenge for the

We

counting in 1866. It is still in use today one of several tools we will IT industry will be to help those involved to understand and use the new information

William Ewart Gladstone (1809-98), British statesman and four times

prime minister: he introduced a system for central govern

systems. Whereas resource accounting being implemented within the Civil Service, legislation is still required to implement it for reporting to Parliament. When they have approved it, commercial accounting systems will have played a leading role in modernising central government.

Rod Newing, MBA FCA FinstD, is a specialist writer on executive computing (e-mail: mewing a cix.compulink.co.uk).



Faster ways to exchange data in government

Cost-saving project Previously such data was helps 585 local authorities to interpret hundreds of directives on fair trading

ocal and central government bodies in the UK are cutting administration costs by up to 80 per cent by using electronic data interchange (EDI) in a unique way to exchange information on trading standards, consumer protection and law enforce-

The project, winner of the 1995 British Telecom Award for Innovation in Electronic Comnerce, was set up after a govvolumes of information which was being printed by computer systems, sent to other organisations and then keyed into their systems.

The Local Authority Co-ordinating Body on Food and Trading Standards (Lacots), which oversees the project, has now developed standard EDI messages so that the information can be transmitted in set formats and extracted automatically by computer systems at the receiving-end for analy-

Lacots helps the 585 local authorities to interpret the 70 Acts of Parliament and 200 European Union directives on fair trading to ensure consistency across the country. It sends a fortnightly circu-

lar on recent decisions to enforcement officers and produces an annual index of advice given in different areas. It also operates a database of

the 50,000-plus convictions each year relating to beavy lorries, typically involving overloading. This is accessed by local authorities and other bod-

/ Masses of information also lasses between local authorities, the Ministry of Agriculture Pisheries and Food, the Office and Fair Trading and

other central departments.
"Local authorities handle a million consumer complaints a year and have to send details to the Office of Fair Trading." says Lacots chief executive Jim Humble. "They have to send statistics on food inspections to the Ministry of Agriculture: this is a horrendous document running to 14 pages, with more than 200 boxes to complete on each page."

compiled by each local authority, then printed and sent to the central government department, where it was keyed in to another system for storage, analysis and consolidation, thus raising the risk of human error.

The Lacots project team found that much of the information in such reports was standard and could be arranged in messages following the international Edifact standard message structure for EDL

A pilot project linking 12 local authorities. Lacots. Ministry of Agriculture and the Office of Fair Trading and involving EDI software specialist Kewill-Xetal and British Telecom's data network last year proved so successful that it is being extended to 130 trading standard authorities by next month.

An experimental link has also been set up with local authorities in France, and the European Commission is showing interest as a body which gathers consolidated data from European Union members. This rapid growth follows

average savings of 78 per cent. These savings range from 60 per cent on the reporting of food inspections and testing to 80 per cent on exchanges of information with the road traific convictions database. In some cases error rates

have been cut from 70 per cent to zero. The savings are mostly in staff costs - but the project has also brought important increases in reporting speed. "If a hazard is discovered in

a food or other item, Lacots or the department of Health notifies local authorities, perhaps by letter," Mr Humble says. "A standard EDI message speeds up that process considerably. In addition, if a local authority stops a lorry on sus-

picion of being overloaded, it needs fast access to the convictions register: again, EDI extracts the relevant information and gets it back quickly." The enthusiastic response to

the system by local authorities and central government departments is leading to expansion in other directions. The pilot involved the development of eight EDI messages and 30 more have since been identified, plus nine electronic mail applications.

John Kavanagh

Advances in data storage

Continued from previous page

within five years from last year's February start date. "The project is well-conceived and can have significant impact on the industry as a whole," predicts Dunstan. "The government have been some-What enlightened in tackling

the problem this way." The drive will be compatible with the current PC Card standard for credit card-sized notebook and palmtop computer add-ons and will have to offer a high level of ruggedness and be able to operate in both hot and sub-zero weather condi-

tions. Dunstan explains that although many observers see the existence of "healthy competition" in the technology sector as a strong driving factor in boosting research, it is not always the case - "in developing PC hard disk drives, you start with price and work backwards: that being the case, the battle you have to fight is making enough profit to be able to help push the technology forward," he says. Once, most companies followed a few large technology leaders, "but now individual companies have to promote new technologies out of their own pockets."



liberate where other

systems

dominate

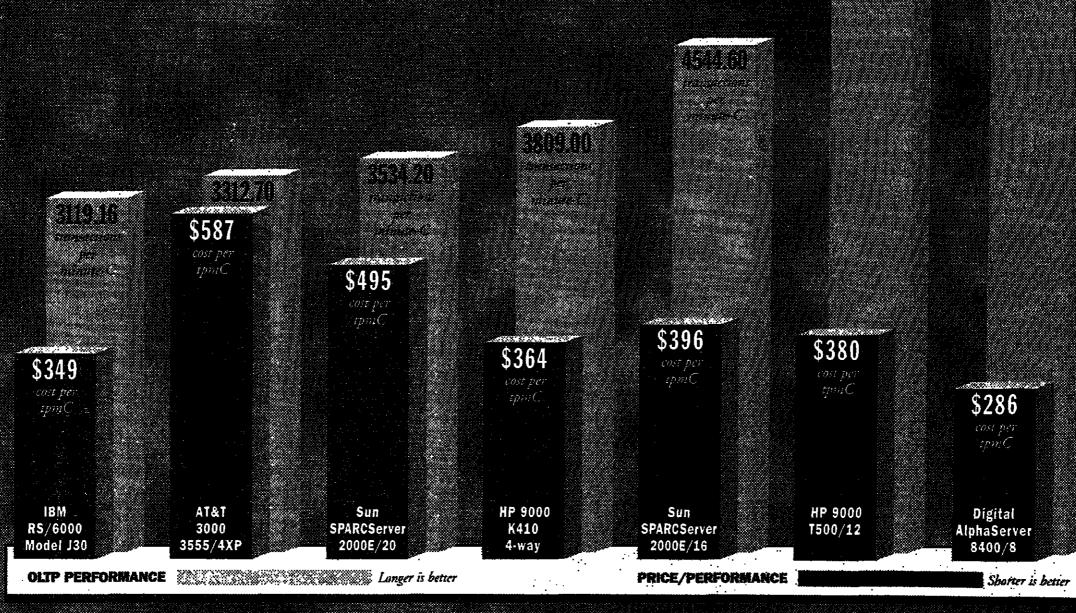
A service of the servic

and pace of Chargo in your organisals in

If you would sand, divines the value that imerates objective

Liberation Systems for Enterprise Accounting

THEY ALLSAY IT'S THE FAIREST TESTIN THE BUSINESS.



SO WHO ARE Never before has so level a playing field seen such a lopsided result. In the latest TPC-C^{**} benchmarks (established by the industry for fair and realistic comparisons), the Digital METOARGUE2 AlphaServer^{**} 8400 system outperformed all other UNIX* servers by margins from 104% to 267%. It outprice/performed them all. too. But

why such a spec-shattering blowout? For the simple reason that Digital has 64-bit technology. And they don't.

Running Oracle7 with 64-bit option, the AlphaServer system burned through the industry's toughest test, the

digital

one that replicates the complexity of a multisite business where everything happens at once.

Perhaps you work at a place like that. And wouldn't mind clobbering your competition, too. Help

is available. Call your Digital Business Partner or phone +31 10 2588877 or fax us on +31 10 2588878. You

can also reach us via our Internet address: moreinfo@digital.com or visit our Web site at http://www.digital.com

ABO
Signal Equipment Corporation Digital, the DIGITAL logo and AlphaServer are trademarks and Whatever It Takes is a service mark of Digital Equipment Corp. TPC is a trademark of the Transaction Processing Performance Council. UNIX is a registered trademark in the U.S. and other countries. Incensed exclusively through X/Open Company, Ltd. Oracle7 is a trademark of Oracle Corporation. All other products are trademarks or registered trademarks of their respective companies. TPC results as of 12/8/95.

هكنامن الأصل

IT in government

US Air Force contract

REARY-198

Record \$1bn deal for 300,000 PCs

Personal computer suppliers will bend to the most

demanding terms from buyers if the long-term deal is big enough

The benefits of bulk purchasing are obvious to any business. In the realm of information technology, large price tags for single contracts are usually associated with big systems that endusers will never see.

The US government has never acknowledged such limitations. Since 1983, when Desktop I was awarded it has placed a series of enormous contracts for personal computers. The latest in this line is Desktop IV, a \$1b deal covering more than 300,000 PCs.

With an order of this magnitude. Washington acquired substantial clout with equipment suppliers. The way the US government went about organising Desktop IV illustrates how an aggressive and uncompromising stance can pay off for the customer.

The entire Desktop IV procurement has been driven and managed by the US Air Force. But the USAF is not the sole customer - the contract covers PCs and associated peripherals for all other branches of the military, plus a segment, around 10 per cent, for use by the civil government.

Large savings

Appointing the technically experienced USAF to handle the contract immediately delivered savings in time and eliminated pointless duplication of government tendering. The initial order for 300,000

PCs, worth \$742m, was placed with Zenith Data Systems, the PC arm of the French IT manufacturer and systems house, Bull.
Government Technology Ser-

vices also won the right to supply systems under Desktop IV. maintaining an element of competition after the deal was awarded. A further 100,000 PCs were

added to the order in 1995, propeli g its overall value into the \$1bn league. ZDS supplies 70 per cent of Desktop IV systems, but that proportion is not guaranteed. The USAF can choose to place more orders with the Virginia-based systems integrator GTSL

For Tom Buchsbaum, ZDS executive vice president for government and education, the prestigious Desktop IV order presented a big challenge. ZDS was one of 23 companies tendering. The USAF expected the

winning contractor to deliver 20,000 units two months from the first order - "we had to be ready to deliver on a dime," Buchsbaum recalls.

ZDS geared up for the order, and added more disk space than the USAF had requested. The thinking was that under the dual-award system, ZDS had to exceed the user's requirements. This set a trend, with ZDS quickly moving to machines based on 486 computer chips, despite a paper specification that only stipulated 386 chips. Pentium chips followed shortly.

The idea of using the mili-tary to sort out civil computer contracts is a fairly recent development, but it has kept a budget-conscious Congress

The civil element of Desktop IV has risen to 20 per cent. Buchsbaum acknowledges that this procedure works in the taxpayer's favour - "the pricing is very low for the contractor, while the value is high for the user".

ZDS has passed the pres-sures of Desktop IV on to its own suppliers. They have to hit certain price points and must accept the risk that future contracts could be awarded outside of ZDS. leaving a hole in their production run. The reward for working inside this regime is commensurate with the risks. ZDS' subcontractors win the opportunity to participate in a very large piece of business.

A unique level of service is another gain from the scale of Desktop IV - "if a computer breaks down anywhere in the globe, we respond. You get that kind of support with that size of contract," says Buchs-

ZDS is currently putting together a service plan for US forces deployed in the former

The company has now won the right to supply PCs under three of the four Desktop coutracts. It was left out of Desktop III. Buchsbaum admits that after gearing up to co-ordinate suppliers and deliver a largescale contract a defeat can be galling - "we've experienced how painful that is."

That fact that ZDS bounced back after Desktop III underlines the fact that computer suppliers will bend to the most onerous terms if the long-term deal is big enough.

Buchsbaum may not feel so, but the USAF was probably right to exclude ZDS from one stage of this formidable deal. The US government is clearly not prepared to let even the most experienced IT contractors take anything for granted.



arters at Abbey Wood, north Bristol

Dawn of a new era at Abbey Wood

When the first of more than 4,400 staff in the UK's Ministry of Defence Procurement Executive moved from offices in London, Bath and the south coast to their £254m headquarters near Bristol, just before Christmas, their new IT and communications system was already fully operational.

The move to the 98-acre site at Abbey Wood is believed to be the largest-ever relocation undertaken by a UK govern-ment department. The move aims to save £100m a year by reducing manpower and oper-ational costs. More than 4,400 staff will have transferred to the site from 15 other locations in the UK by the end of

"It's rare to have an IT and communications system fully operational at the start of the occupation of a large building from day one," says Mr Bob

Quick, head of IT infrastructure on the site.

Major Philip Kershaw-Naylor, project manager of DAWN - which stands for 'Delivering the Abbey Wood Network' says that the system can technically support up to 5,000 computer terminals. It is based on Unisys workstations. using the Microsoft Windows NT operating system. EDS, the IT solutions group

won the contract to provide the Microsoft Office system. Digital Equipment Corporation are the IT system integrators, providing Microsoft Exchange software with e-mail and scheduling facilities - all part of the "technology refreshment programme" at Abbey Wood, the largest single-site office complex in northern Europe.

The Procurement Executive buys £7bn worth of equipment and spares for the armed services each year - items rang-



Dr Malcoim Mointosh, chief of defe **DAWN terminal at Abbey Wood**

ing from submarines and fighter aircraft to radios and field kitchens. More than 5,000 contracts are placed each year, with 10,000 active

at any one time.

The IT installation at Abbey Wood provides "the most cost-effective system, using commercial off-the-shelf products while meeting all the Ministry of Defence requirements," says Mr Quick.

In advance of the first move to Abbey Wood, 2,000 MoD staff around the UK were given "a glimmer of the DAWN project" at IT presentations around the UK.

are being installed, with facilities to connect them to other Ministry of Defence sites.

Four video-conference suites

Michael Wiltshire

By Michael Dempsey

Weather and oceanographic forecasting system

Improved access to crucial data

Royal Navy's advanced meteorological system brings big operational benefits

The London suburb of Northwood is home to a heavily-guarded bunker that houses the operational headquarters of the Royal Navy. From April, a new combined services command will be based there, running overseas deployments such as the British force in Bosnia.

Northwood is also a hub for maritime weather forecasts, housing the Fleet Weather and Oceanographic Centre, known with the military affection for unlovely acronyms as FWOC.

FWOC relies on raw data from the UK Meteorological Office. But until very recently this information was processed on the Fleet Met Computer, a system based around assorted technologies up to 20 years old. A purpose-built suite of software called Ocidas processed

oceanographic data. This material is critical to a modern navy. Surface vessels and subsonar and a variety of other sensors. Water temperature at different depths effects the performance of these systems and can dictate the capabilities of naval weapons.

Pressures On top of these two sources,

FWOC also operates remote sensing equipment, based on satellites. Unfortunately, these three sources of data were unable to communicate with each other electronically and Michael Dempsey were demanding in terms of technical areas Data Sciences

support and manpower.

The latter resource is under intense pressure in the Royal Navy, which has seen significant cutbacks in recent years. FWOC needed a total overhaul, but the result had to be accommodated within a tight defence budget in an era of increasing scrutiny of military spending.

The Navy's answer was to update FWOC using an outside supplier on a fixed-price contract. The US outsourcing giant, EDS, found itself shortlisted opposite UK systems house Data Sciences. Lt Cmdr Gary Howells, a

Navy oceanographer and computer systems manager, recalls the final selection process: "We produced a marking scheme, ticking off points that mattered to us. But cost was also very important. If you choose the more expensive contractor in these circumstances, you've got to have a good reason for

Data Sciences undercut EDS on price and was awarded the £2.4m contract. Both shortlisted candidates had employed former naval officers to advise on their bids. In the case of Data Sciences, an Aberdeenbased consultancy, Ocean Routes, was called in. This company supplies weather information to commercial clients - getting to grips with the world of naval meteorology was essential if Data Sciences was going to deliver a working solution within budget. Paul Venn, a new business manager at Data Sciences, recalls how he kept in touch with the users' perspective - "we understood their domain. We arranged detailed technical

workshops that allowed the users to air their views". Mr Venn admits that in some

By Geoffrey Wheelwright

HMS Sheffield - one of the Royal Navy's warships which benefit from the

was out of its depth - "some communications problems were beyond the scope of our participation. These were han-

dled by the Ministry of Defence itself.

With 35 per cent of its £120m turnover generated by Defence

Ministry business, Data Sciences could be expected to know this client well. But Mr Venn believes that the secret to his company's popularity in defence circles lies in "knowing its own limitations...you have to focus on particular areas, rather than spreading your abilities too thinly. "We are probably the UK

experts in datalinks and we do understand secure communications very well."

Data Sciences succeeded in transporting Ocidas on to Hewlett-Packard workstations and tied to the Horace meteorologi-cal software package - "to be able to use data from both systems together is no mean feat," Mr Venn says. "It's a big and complex system." The challenge was to keep

costs down by using standard commercial hardware and some off-the-shelf software while integrating two very different large programs, tai-lor-made for the UK government, Horace and Ocidas. - Lt Cmdr Howells notes that

the Navy had originally planned to hedge its bets, running the old FWOC system in parallel with the new arrange-ment for several months. This insurance would keep vital data flowing in case the Data Sciences solution slipped up.

The new FWOC went live on December 23 1995; this date itself indicates confidence in the system. Howells says "the inauguration didn't ruin anyone's Christmas, and with the imminent arrival of the joint services HQ at Northwood, it was decided to accelerate the implementation. We decided to go for a Big Bang approach. We only kept the old hardware running for two or three weeks. We had enough belief that it was going to happen."

The former FWOC equipment has now followed the fate of discarded warships and is being broken up for scrap. The Royal Navy has improved access to weather data from interlinked sources, and Northwood can operate FWOC with 20 per cent less staff.

CLASS OF ITS OWN

Until now, choosing a portable PC could mean compromising on power and flexibility. Elonex's NB-500/I notebook changes all that. Even the basic specification of the NB-500/i offers PCI Pentium power and a colour screen. And its modular design means that despite its small size and light weight, users benefit from a wide range of alternative configurations, including an optional CD-ROM drive. This Notebook has been designed to beat the best in the world, matching the versatility and processing speed of much bigger and heavier machines. Its Pentium processing power, multimedia capabilities, upgradeability and performance certainly puts the NB-500/l in a class of its own.

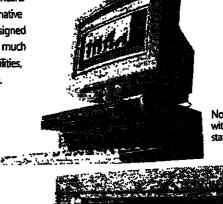
standard or MS DOS 6.22 and Wordows for Worksproup, 3.11 on regular Whitemer operating

numbument is pre-loaded, a is supplied complete with program manuals and briteries.

All lights upon have acress to unimped technical support. Preve call for detail, Privilly and

configuration are when to change without income Museum, Visidons, and the Warefully

logo are requiered trademarks of Mousett Cosporation limit, later limiter eight and Perform the



01274-307226 01236-452052

Fax: 0181-452 6422 01274-307294 01236-452254

Tet 0181-452 4444

Mapping the oceans Valuable aid to navigation

Project is 'a model of co-operation between governments and industry'

joint research develop-A ment effort by the Cana-dian arm of database experts Oracle Corporation and the (anadian Hydrographic Service (CHS) has yielded technology that will allow geographical and spacial data to easily be incorporated into large databases.

Incorporated as a product known as Oracle 7 MultiDimension, released in June of last year, the technology is something of a breakthrough for anyone working with geographic information systems. The spatial data that it can hold in its database is defined by multiple dimensions including latitude, longitude and elevation - and typically describes the geographic characteristics of a particular area or object. In many cases, it could eliminate the need for costly, bespoke databases to meet this need.

 $L_{V_{i,j}}$

1

Oracle estimates the business opportunities created by this opportunity to be in excess of status as corporations in a wide friety of industries start Oracle databases. in the financial serocare, pharmaceutiee and consumer goods se

CHS (under the Oceans) in birking with Ora-cie to field development of the field development. the Canadian termology, drew praise from to efficiently store and access

eries and oceans Brian Tobin called it a "model of co-operation between governments and industry" for the benefit of those involved. CHS employees are credited with making the technical breakthrough that makes possible the manage-ment of spacial databases.

"The Canadian Hydrographic Service received \$2.12m of software and support, Quebec got a new industrial laboratory and Oracle Canada got a new product to market worldwide," said Tobin. "This software adds significantly to Canada's high-technology expertise and to our international competitiveness in this field." According to Tim Evangela-

tos, chief of database research for the CHS, there is already a large pent-up demand for this technology. From the demand we've

already seen, we are certain that this technology - origi-nally developed for CHS in Oracle's Canadian Development Center - will ultimately have a far-reaching impact on how geo-spatial information is managed throughout the world," he says.

In addition, CHS says the benefits of combining database and hydrographic mapping technologies "do really pro-duce something more than the sum of their parts".
"Oracle? MultiDimension

allows us to get the best of two worlds," says Steve MacPhee, director general of the Canadian Hydrographic Service. Now we can take full advantage of RDBMS technology benefits, such as guaranteed data integrity, with the ability

the Canadian government, whose then minister of fishment uses to manage Canada's inland and coastal waters for the fishing and maritime industries."

Oracle sees wide potential application for the technology. An insurance company, for example, might use it to calculate the potential liability to its policy holders of a large-scale flood by plotting the location of their homes relative to the flood plain of a river - while a supermarket chain might use it to analyse buying patterns according to a highly-defined set of demographic and geographic information and then use the results to carry out promotions organised by city. town and neighbourhood.

New services

In the UK, meanwhile, the Admiralty's Hydrographic Office (HO) has been working with EDS, the IT services provider, on two pilot projects due to be completed this spring, aimed at enabling it to develop and issue charts of the world's oceans and Notices to Mariners' more efficiently and costeffectively than before - while giving seafarers an even more up-to-the-minute picture of the

In addition, the systems will hopefully enable the Hydrographic Office to develop new products through the development of a database.

The first system, named Genesis, will enable operators to automate the previously manual process of assessing source documents - including text, photographs, digital survey data, Royal Naval and commercial surveys and foreign government charts. The second navigation,"

hydrographic charts on-line, so that operators can manipulate and draw information from Genesis and quickly make updates to the charts.

The Hydrographic Office is an Agency within the British Ministry of Defence. Its primary role is to meet national hydrographic responsibilities and to provide the hydrographic products and services which users need to go about their business at sea safely and effectively.

Worldwide navigational cover is provided by a compact series of approximately 3,300 British Admiralty (BA) charts and associated navigational publications. Charts are continuously up-to-dated; in addition to new publications there are 200 revised editions and 4,500 corrections (Notices to

Mariners) each year. According to Dr Chris Drinkwater, information systems director at the Hydrographic Office, this new system should change the way his agency works - "for many years, computer-based systems have been used to good effect. Introducing the very latest technology into all aspects of chart production, from data assessment to product preparation, brings the potential for significant operating efficiencies, permits more rapid assessment and dis-

semination of information." Paper and digital products can also be produced from the same database.

The overall effect will be a more efficient organisation. better meeting the needs of the mariner, "so ensuring that the office continues to play a leading role in supporting safety of



10 FT - IT

■ Telemedicine

By Geoffrey Wheelwright

Boon for rural

Computer technology and high-speed network links are changing the face of medical services in rural communities

'telemedicine' - using systems that combine personal computers, video-conferencing and high-speed data transmission – is now playing an important role in many small North American towns

and lonely, country outposts.

Telemedicine uses techniques such as video-conferencing as well as patient and diagnostic information exchange via high-speed computer links to bring the expertise of large urban hospitals to bear on the medical problems of patients in outlying areas. without having to move the patients or send specialised doctors into the field. In the American state of Montana, for example, US West, a telecommunications service provider, has been testing one telemedicine solution for the past twoand-a-half years.

A telemedicine pilot project, known as the Eastern Montana Telemedicine Network (EMTN), has been running since September 1993. It is designed primarily to give rural patients access to physicians, and rural physicians access to specialists. An important secondary goal was ongoing education for healthcare professionals and staff. It involves US West and five medical centres whose provider area covers 37,000 sq miles - with a population density of less than two people per sq

The "hub" of the project (to which remote medical facilities can dial in) is at the Deaconess Medical Center in Billings. Montana. Rural users are medical and mental health care facilities in the eastern Montana communities of Culbertson, Sidney, Glendive and

Miles City. US West provides dedicated high-speed networking facilities to each site, connected in a daisy-chain fashion, with access to a 384 Kbps channel for video and another 384 Kbps channel for data. The system makes simultaneous video conferences possible - or allows for the transmission of data during a video conference.

be emerging science of Each site has installed a per sonal computer-based VTEL media conferencing system with two 27-inch monitors - as well as a camera that pans, tilts and zooms, and a document stand that allows the system to display anything from patient records and x-rays to three-dimensional objects.

US West says the system can be connected to any medical devices that use a standard video output - meaning that pathology slides, endoscopy videos, echocardiograms, electrocardiograms and a variety of other medical imaging can all be transmitted - allowing the more advanced facilities at the urban hub medical centre to do the analysis of the patient's test results.

The system also allows for multi-point video and audio

Telemedicine reduces the isolation of rural medical practice

conferencing (so that groups of doctors and specialists can confer about a case), and for what is called "time conferencing", which functions like a video version of e-mail. On a pointto-point basis, computer conferencing is also available, so that users at two different locations can work simultaneously on a document.

Mr Jim Reid, former director of the EMTN who is now an independent telemedicine consultant with Billings-based Innovative Medical Communications, says that the system has taken some getting used to "over 50 per cent of the patients surveyed said it wasn't the same as being there in person. But 100 per cent said

to travel." Meanwhile, another set of telemedicine trials are under way involving facilities on the west coast of the US. The University of Washington has linked doctors in Ronan, Mon-

they would prefer telemedicine

Driggs, Idaho and Colville, Washington so that they now have electronic access via interactive computer video to some of the top specialists in the main urban centre of Seattle, Washington.

Hospitals and clinics in each of these towns are part of this telemedicine project with the university, which is designed to evaluate the potential benefit of telemedicine consultations in the delivery of rural medical care. A grant from the Office of Rural Health Policy of the US Department of Human and Health Services funds the three-year project.

Medical consultations take place in locations equipped with desk-top computers and special devices to transmit live video and other images, such as x-rays and high resolution photographs. For example, a rural physician can circle a worrisome spot on an x-ray appearing on his or her computer screen and the circle will appear immediately on the same image on the University of Washington physician's screen in Seattle. The physiclans can then see and talk with each other and the

This project is designed to use the least expensive and least complicated technology possible to assure that the technology remains affordable for rural medical facilities. According to organisers, each telemedicine station costs approximately \$13,000 for a basic set-up - with additional costs for extra accessories such as a film scanner and other special medical devices.

Another aim is that the system will provide support for rural physicians who often experience professional isolation, which leads to a high staff turnover in remote areas. But knowing that a consulting specialist is just a phone call away may be the type of support doctors alone in a rural practice need. According to Dr Thomas Norris, principal investigator for the University

of Washington telemedicine project, it could make a big difference for doctors and patients - "isolation is the enemy in rural practice. We hope telemedicine can help



now guide other surgeons through complex operations - with

Multimedia saves lives

Philip Manchester reports on the progress of SuperJanet

eading-edge networking technology is taking UK healthcare into the 21st century. The SuperJanet network, first set up in 1993, provides high-speed multimedia networking to medical researchers and practitioners across Britain. Funded by the Universities'

Funding Council, SuperJanet evolved from the Joint Academic Network (Janet) which operated on an earlier generation of networking technology. uses SuperJanet high-speed networking technology called asynchronous transfer mode (ATM) to provide the bandwidth capacity needed for multimedia applications, such as video-conferencing. The network runs on

General DataComm. SuperJanet allows, for example, students to watch skilled surgeons perform 'live' operations over the network. Students and researchers can also use the network for videoconferencing and to view rare

leased lines from BT using

ATM switching hardware from

manuscripts and academic papers held in university libraries, via a desktop comouter. "The important thing about ATM is that it gives you the ability to run a multi-s vice network. It's essential for the sort of application we are running because you have to be able to separate traffic," says Mr John Dyer, technology manager at the UK Education and Research Networking Association (UKERNA).

We now have 15 sites connected to SuperJanet which can all participate in both data and video services. The video service is full motion, full frame - which is important so we can get the image quality." Six of the sites are regularly involved in the most ambitious aspect of the service which gives students access to surgical teaching. Standard audio visual equipment in operating theatres feeds through to a coder/decoder (codec) connected to the ATM network. There are plans to use SuperJanet as a way of allowing consultants to advise on surgery remotely. An expert in a specific area of surgery could, for example, guide a surgeon through a difficult operation without needing to

Continued on facing page:

Injury claims processing

Danish trailblazers

New case records system eradicates paperwork delays

enmark's Industrial Injuries Board receives 330,000 letters a year yet it is aiming to become a paperless office by 1997.

This project will include document imaging, work-flow systems and electronic data interchange and allow staff to work from home. At the same time it will enable staff to take greater responsibility for cases. increasing their job satisfac-

The Industrial Injuries Board, an agency of the Ministry of Social Affairs, handles compensation for industrial accidents, work-related ill-nesses and victims of Nazi occupation from 1940-45. It also advises courts in private insurance cases. The statistics surrounding

the board's activities make the paperless office seem an impossible dream. Its 300 staff get 46,000 new cases a year, receive 1.300 letters a day and send out around 1,500 - amounting to at least 375,000 a year. The board took a big yet rel-

atively simple step in 1992 by linking its chosen word processing software, Wordperfect. to its case records system.

This has cut the separate keying of the same information into two systems. "The letters always contain

information which is found in the case system, such as names and addresses, details of employers and insurance companies and information on injury dates and diagnoses. says Anne Madsen, the board's deputy director-general. Writing, compensation cal-

culation and recording are now done in a single, automatic

The case worker enters the file number and the code of the standard letter to be sent. An individual comment can be added to the letter if necessary. The system prints the letter and updates the case information: for example if the letter is to inform someone of a decision, the case record will be updated with the type of deci-

"If the decision is to award

culates the amount, inserts it in the letter and, again. updates the case record.

"All this means it is easy to get a quick overview of an entire case, including all the outgoing correspondence. through a single enquiry."

The system links overnight to the national citizens register to update the central records with any changes of address.

This 1992 development has already had considerable impact. In effect all the tasks which have now been automated were previously done by separate teams: there were staff entering data to the case records system, others word processing letters and a third group handling calculations, in addition to the professional

Automation cut the need for staff but instead of making half of them redundant the board chose to retrain them to take



Anne Madsen: her staff send out 375.000 letters a vear

more responsibility and to improve service.

We work under contract to the Ministry of Social Affairs and part of the contract is to constantly seek to improve quality," Mrs Madsen says. We have surveyed 2,500 direct clients and 300 organisations, such as unions and insurance companies, on their expectations and have set performance targets. For example, letters acknowledging receipt of a claim are sent within five days.

Technology plays a part here, too; for example we produce weekly information on the numbers and quality of

toward a paperless office by introducing still more technology. It is working with computer company Unisys on several projects at once

minis:cr

Sectionic

167

One key aim is to stop physically handling masses of letters. A pilot project is under way here on document imaging to store incoming letters as images. Letters are barcoded with reference details for automatic storage to and retrieval

from the correct case files. An associated work flow project has been set up to identify further efficiency measures and changes to prece dures. These projects are based on Unisys Unix computers and a Novell PC network

The board is also looking at extending these systems to people's homes to support tele. working. This would not be every day but would enable staff to work from home for two or three days a week if they wished.

Meanwhile, telecommunica tion is being extended to the outside world, typically through electronic data inte change (RDD: the autometed exchange of documents in standard formats between comput-

This is generally associated with the transfer of orders and involces between companie but it is also used for exchanges between public bodies. The board is using it to communicate with hospitals, insurance companies and local authorities to request and receive standard information

As the document imaging project progresses it will also send images of past correspondence to insurance companies electronically.

Electronic communication could even be extended to individuals: Mrs Madsen points out that well over 60 per cent of homes in Denmark have PCs. All these developments are

in line with the Danish government's Information Society 2000 project, which grew out of a 1994 study commissioned by the relatively new Ministry for Research and IT.

"We want to be trailblazers in the Information Society 2000 project - and we intend to reach our paperless office target by 1997," says Mrs Madsen.

SIEMENS NIXDORF

Europe's No. 1. Three year's running.

Siemens Nixdorf is Europe's largest IT vendor. In fact, according to Datamation, we rate No. 1 in no less than 5 categories: Midrange Systems, Mainframes, Workstations, Maintenance and Services and have led the overall rankings for the past three years.

But our pole position is more to do with attitude than size. The reason we are ahead of the pack is our focus. A focus on customer needs. It drives us to create truly effective open

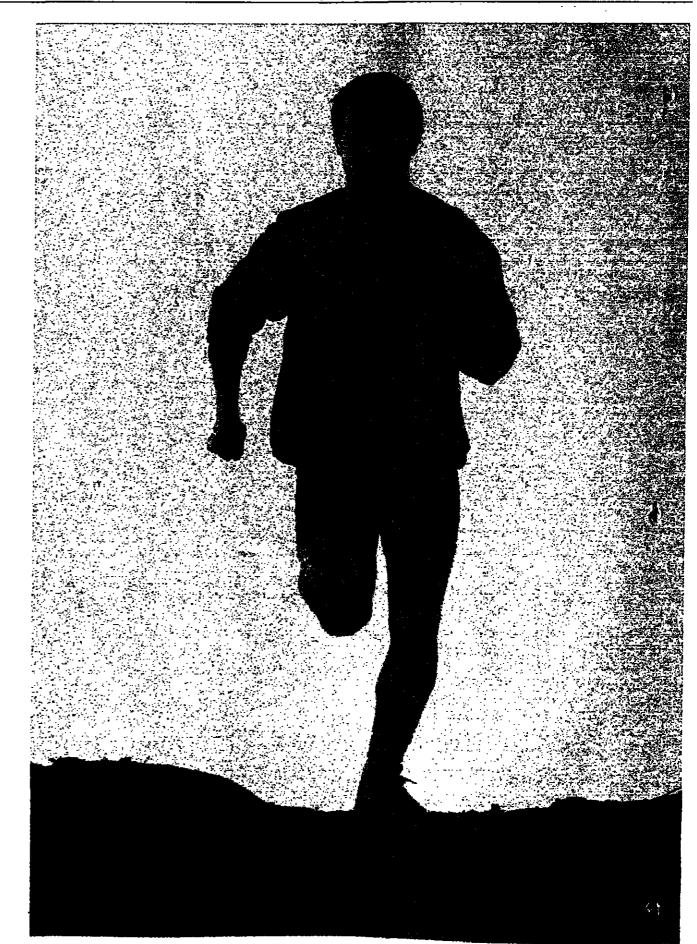
systems solutions. Such as R/3 LIVE, the world leading enterprise-wide information system based on client/server architectures. Or CaMIS, which provides clinicians in UK hospitals with modular patient administration and management systems.

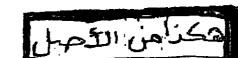
It leads us to make products which run ever faster and more efficiently; whether they are PCs, UNIX" or mainframe servers, customer service terminals or high speed printers.

It encourages us to deliver services which keep businesses running smoothly with multi-vendor hardware and software maintenance, network management and outsourcing services.

Whatever you need to keep your business running - talk to Siemens Nixdorf. We are taking the lead by putting our customers first.

Siemens Nixdorf Information Systems Limited. Siemens House, Oldbury, Bracknell, Berkshire RG12 8FZ.





FT - I T

By George Black

IT in government

Whitehall offices

Shape of things to

Let's join the IT revolution, says minister

RUARY?

estrille, Callon

and the me

And the same traces in the same

A STATE OF THE PARTY OF THE PAR

to the second se

To Early City

Francisco Palmont

ile filter

ing the first way

and the same

A STATE OF THE STA

the transfer that the

arbit 12

in in the merchandig

e tak transpira

The second

is serviced by

7.47

Service (See

〒 - アポール - 2 AND 9855

Visit Seminary Act

march same.

್ ಬಿಂಗಾಗ ಚಿತ್ರಚ

ss paperwork

-- -- --

11.0

Geoffrey Wheeling

ture

MCIA Moden

ORMATION ON THE

FA MODEM WITH DE

hen Mr Roger Free-man, Britain's public services minister services minister, toured a government IT exhibition last month he was most impressed with what he saw. Well, almost everything.

The minister was treated to a demonstration of what a Whitehall office would look like in the year 2000, and watched in rapt attention as the new technology was put through its paces.

The fictitious minister's office was replete with voicecontrolled computers and video-conferencing facilities, offering him instant access to information and staff. The only problem was that the "minister" was a Lobour minister.

That slight hiccup apart, Mr Freeman liked the look of the Whiteball office of 2000. In fact, he declared that the same facilities could be available to ministers now, if there was not so much suspicion of new technology within the civil service.

"It is a revolution and it's already happening in the private sector," he said. "We have got to catch up to become more efficient.

"We are a conservative nation with an excellent civil service, and we make changes very slowly. We have to face the reality that we are going to be engulied by paperwork very soon; we must use modern technology if we are to govern properly.

Mr Freeman insisted that the technological revolution

held back by a shortage of tem and introduce the hardcash. Ministers believe the installation of hardware such as video-conferencing equipment could be installed under the private finance initiative.

"This revolution is with us now," he said. "There's no reason why we shouldn't introduce these new technologies immediately. There is no resource constraint - it is people that are the constraint."

It was to sidestep civil service resistance to new technology that Mr Freeman and his boss - the deputy prime minister Mr Michael Heseltine

Roger Freeman: "We must use modern technology if we are to

- decided to set up a new Cablnet Office information tech-

nology unit. comprise a mix of handpicked civil servants and staff seconded from industry, who will draw up a complete Whitehall computer strategy and implement it with the aid of the private sector.

"It will be a professional team; we have got to let the in Whitehall was not being private sector drive the sys-

I Computer services in Whitehall By George Parker

Relief over agency's future

be slimming down ... we have

to the CCTA. The January 31

announcement stated that the

departments were freed to use

Since then, the CCTA has

been steadily commercialised.

The proportion of work which

it undertakes free of charge for

the common good of its cus-

tomers - now around 50 gov-

ernment departments and 100

agencies - has fallen sharply.

It is down to 20-25 per cent

alternative channels of pro-

The news that the CCTA will become an executive agency is a relief to its management and customers

orries that White-hall's main computer services agency, the CCTA - originally the Central Computer and Telecommunications Agency - might be priva-tised or abolished were dispelled last month when the government announced that the CCTA would not be sold but stay in the public sector as an executive agency.

The agency, with a staff of 290, helps departments decide on the kinds of computer services they should buy and advises them on issues such as data protection. Ministers took the view that it would be difficult to privatise a body whose main task is the provision of high-quality service to Whitehall departments.

CCTA staff are at present civil servants within the Cabinet Office's Office of Public Service; as an executive agency from April 1 they will remain within the OPS, but operate on

The CCTA's director Rov Dibble, who is due to move to the Foreign Office in February. had said that privatisation could prevent the CCTA from continuing to perform its role of undertaking independent work on behalf of its customers. However, becoming an agency would only compel it to prepare its accounts differently, which could quite easily be done, he said, and would therefore be likely to be less disruptive.

Mr Dibble said it was a great relief that the CCTA would not be privatised and "we're extremley pleased," but, he added, there were negative and Mr Dibble said that the

per cent. Government departments aspects: "Full cost-recovery might not like being asked to will not be easy and there will

to convince customers that it's worth paying for our services." matter for ministers, not civil The creation of the Central servants, to decide. Information Technology Unit The organisation has (CITU) last November at the shrunk, partly because outinstigation of Mr Michael sourcing of information Heseltine, deputy prime minissystems by departments and ter, with a remit to make a agencies has reduced the CCTA's advisory role, partly because those customers have strategic review of government's use of IT, raised the question of how it would relate strengthened their own inter-

two would "work in close co-operation." The mission of the CCTA. become far "to help the public services successfully acquire and use the information systems to about the meet their business needs." has not changed greatly in services it offers many years. But what that task involves and how the CCTA should go about it have always been controversial

nal expertise.

the CCTA had 400 staff; now it issues and its responses to the has 290, most of them based at Norwich. But it has to provide ously changing.
One big upheaval came in public sector procurement of the 1970s when the buy-British systems valued at £2.3bn a policy was abandoned and the year, a figure which is up from then-British ICL ceased to be £1.7bn five years ago and still the CCTA's preferred supplier. Another came in 1984 when

Last year, the CCTA was directly involved in arranging £559m worth of procurement contracts and £400m worth of market testing and outsourc-

The pressure to support a larger and more complex procurement operation with fewer people has meant that the CCTA has had to be much more selective about what types of service it can offer. It has spun off some prod-

current objective, urged by the ucts, such as the methodolo-Treasury, was to reduce it to 10 gies for systems analysis, projpay for services which they had previously had for free, he

noted, adding that this was a It has retreated from stan-

The CCTA has and the Private Finance Initiative, and research into emerging technologies are - until more selective

support services for a total

ing contracts.

ect management and risk management, respectively known as SSADM, Prince and Cramm, as well as its infrastructure library, into autonomous com-

dards-setting, reducing its representation on national and international committees and withdrawing from the almost impossible job of instructing the public sector on which technical standards to follow. Of the remaining activities, guidance on best practice in procurement of computer and telecoms sytems, support for market testing, outsourcing

April - still free of charge. Bulk purchasing of systems as well as consultancy services have to be paid for.

The CCTA also publishes around 50 books, reports and briefing papers a year on technical subjects, which are sold through Her Majesty's Stationery Office (HMSO) to both public and private sector customers in the UK and overseas. The research focuses on currently hot topics such as government's use of the internet

and information superhighways of the future, smart cards and identity cards, groupware and electronic commerce. The potential impact of a change of status on up to now free services such as guidance

and research has worried the CCTA's customers. They see the CCTA's experience of government systems accumulated over 25 years as a unique source of assistance and a catalyst for their techno-

prime minister, has the remit to nment's use of IT

Last year the government canvassed the views of the CCTA and its customers on what its future should be. Some departmental heads of information systems responded that the loss of independence would be a serious matter both for them and for the CCTA, A private company would always have a vested interest when it gave advice, it was argued.

Colin Muid, head of central information systems at the Home Office, was one who took this view.

He said that the Home Office made moderate but important use of the CCTA's services, especially for advice on complex issues about the novel use of technology.

"The CCTA has been one, two or even three steps ahead of the rest of us most of the time," he said. It was also valuable for a

department to be able to tell the National Audit Office and the Public Accounts Committee that it had received the best possible advice before embarking on a major project.

Electronic trading at HMSO

By John Kavanagh

ware," he said. He did not

believe the further introduc-

tion of IT would have "redun-

dancy implications" for the

at the Institution of Civil

Engineers, was put on by the

government's CCTA computer

Mr Freeman watched to see

how new technology could

help a minister cope with the

political aftermath of a simu-

lated oil tanker disaster, in

The exercise portrayed the

minister visiting the scene of

the spill, and receiving instant and detailed briefings

via computer and video link

The minister's private sec-

retary "George" used his

voice-activated computer to

call up details of the wrecked

tanker and previous govern-

ment policies on shipping

The private office was also

able to supply detailed

responses to anticipated

media questions, as well as to

provide biographical details

on a troublesome opposition -

could have a significant effect

on the way government oper-

ates in the next millennium."

Mr Freeman said. "This proj-

ect positions the UK as the

world leader in harnessing

the power of new technologies

Mr Mark Gladwyn, head of

strategic programmes at

CCTA, said: "The technolo-

gies used in Whitehall 2000

are simple to operate and will

enable ministers and business

leaders to participate fully in

a giobai economy."

to enhance government.

"The Whitehall 2000 project

Conservative - MP.

with his private office.

The Whitehall 2000 display,

civil service.

the year 2000.

Cash flow speeds up

How Britain's biggest publisher handles 400,000 orders a year

t takes eight minutes on average for a member of staff at Her Majesty's Stawith an order for publications, stationery or office equipment. Yet half the orders are worth less than £10, and 90 per cent total less than £100. The organisat in receives over 400,000 orders a year, with a total of more than 3m order lines.

These figures spurred HMSO into electronic trading - and its early experience has proved so beneficial that it is expanding into some pioneering applications. HMSO is the biggest pub-

lisher in the UK, the biggest printer and the third biggest stationery supplier. It has a turnover of £360m and 2,900 staff.

HMSO supplies stationery, publications and office equip-ment to the public sector and also sells publications to the private sector. Pressure to start electronic

trading was really felt at the end of the 1980s, when it began working at arm's length from the government as an agency. "We no longer had public sector business by right or

decree: we were now only as good as our product price and service," says electronic data interchange (EDI) manager, Mr Тегту МсСгин. We had a reputation for

good quality products at competitive prices but we were seen as remote and bureaucraticized our service was perceived as slow. Customers were changing with the advent of devolved budgets and ordering and the recruitment of better qualified and professional purchasers.

"In addition, our big customers were moving towards EDL" Like many organisations. HMSO started in electronic trading by receiving orders using a standard EDI message into a PC, via the GE Information Services Tradanet network. The messages were printed and the information was then keyed into the order processing system.

That was six years ago. Today, HMSO has set up a more efficient system based on can't meet an order, so we can

which receives EDI messages, extracts the necessary data and passes it automatically to the appropriate business

Orders now come from three electronic sources, including EDI. An on-line catalogue can be accessed from a PC by link-Unix computer in Norwich. Customers can place orders through this machine, which sends them to the Ediswitch system. The on-line catalogue is now used by more than 200

HMSO has also just started supplying its catalogue on floppy disc to government departments. Customers can browse it and set up orders on a PC and then send them over the Government Data Network, again to the central Ediswitch system.

In all cases, the Ediswitch software extracts the relevant data and passes it to the order processing system.

lectronic trading now accounts for £42m of orders, or 12 per cent of HMSO's total. This figure has grown ten-fold in four years. As well as receiving orders

via EDI, HMSO now sends back invoices and also sends orders to its own suppliers: around a quarter of its own orders are sent in this way, to 130 suppliers.

"We've cut our lead times dramatically - by five days on average," Mr McCrum says. This has enabled us to gain and retain business. For example, we have just won a contract from the National Health Service which demands that orders received up to 2pm are delivered the same evening.

"We have increased accuracy from the reduced keying of information. Previously, 10 per cent of keyed documents needed attention to sort out errors; now it's less than one

per cent. "Sending invoices by EDI has improved cash flow, because customers receive them promptly and we get paid more quickly."

Further EDI messages are being added, bringing increasing benefits - "we are starting to receive order response messages from our suppliers," Mr McCrum says. "These give early notification if a supplier

GE's Ediswitch software, decide immediately to use another supplier and can quickly inform the customer. "The despatch advice mes-

sage will enable us to prepare storage space for big orders and plan to unload the lorries. We can also keep customers informed about their orders. If the supplier is delivering direct advice can trigger the transmission of our invoice, to arrive just after the goods.

"We can make real savings by receiving invoices electronically. We get 200,000 invoices a year and have a small army of people keying them in and matching them to orders, because 25 per cent do match automatically.

"Suppliers will also send their product information directly to our on-line catalogue for automatic updating, again eliminating keying.

"All these steps ensure that we have better accuracy and efficiency and better relationships with customers and suppliers: EDI has facilitated the re-shaping of internal business

HMSO expects these relationships to develop still further. It is looking into paying by EDI, sending instructions electroni-cally to the bank, which would arrange payments and send remittance advice messages to the recipients

"We normally pay within 30 days, but if we can reduce the payment cycle and pay earlier we can again promote a better relationship with suppliers and negotiate discounts," Mr

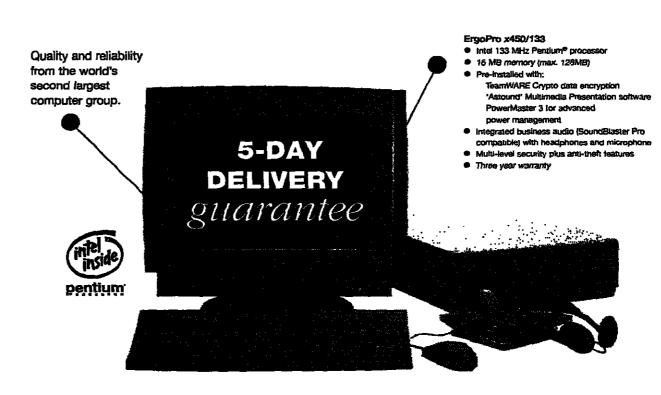
McCrum says.
Other possibilities include setting up automatic readers for entering the 30 per cent of orders that come in by fax and currently have to be keyed-in. HMSO is also exploring the

Internet, possibly to make its catalogue widely available, perhaps setting up PCs in HMSO shops to provide access. Finally, after six years of

progress from a humble start in EDL HMSO is aiming at the ultimate in electronic trading: not holding any products at all. One aim here is to get suppli-

ers to hold stock themselves, to cut HMSO's own am product inventory. A first step will be to send sales data and forecasts to suppliers via EDI. Allied to this will be self-billing by the HMSO: it will calculate suppliers' invoices itself and

PROMISES. promises.



If you've been the victim of empty promises, you'll be pleased to know that as the second largest computer group in the world, we now guarantee delivery of 5, 50, even 500 PCs or Servers in 5 working days. In fact, our 5-day delivery guarantee is true for every one of the products in our 'Best Sellers' range. And that's a promise.

CALL NOW FOR FURTHER INFORMATION 0345 44 11 22

The intel Inside logo and Pendum are registriad trade marks of intel Corporation

CL Pupiso h.2 Tracher Bandonell Berlie Riel 2 85% http://www.htm.

Multimedia medical network proves its worth

Continued from facing page:

be present in the operating theatre. SuperJanet can also be used for multi-way technical meetings - "the network is extremely useful for this and amount of interest in this." we have had up to 11 sites. The performance of the netparticipating in a multi-way

video-conference." Acons to electronic docuients is another area where SuperJanet has proved its. worth. Experiments have been carried out where the text of

academic journals was distributed over the network: "The John Rylands Library in Manchester has made material available electronically and there has been an enormous

work has lived up to expectations - although Mr Dyer says there are still improvements that could be made: "The limitations of ATM at the moment are not to do with throughput or reliability, they are related

to reduced functionality and the lack of standards. Supplistandards in the area of switched virtual networks which is something we need. You can get proprietary solutions - but we want standards-

hased technology."

Meanwhile, SuperJanet has
proved that ATM can deliver. on its promise of full multimedia networking and this. augurs well for the future of

the technology.

Alliances on the Information Superhighway

Connecting the classrooms

US government acts as a catalyst to achieve private sector partnerships in education

the potential advantages for individuals and industry of teleworking or telecommuting, as it is known in North America - but the US government is also pushing the benefits of this technology as applied to education

From US president Bill Clinton on down, there is a massive push to create a national network of "connected classrooms" that can gain the benefits of the vast pool of educational resources on, for example, the Internet - in the same way connected individuals who are telecommuting can have access to these resources for business while they are working from

More than 9m Americans already use computers and modems to work from home and the number is rising fast.

President Clinton, in a speech in San Francisco, laid the groundwork for new educational benefits: "I issue a challenge to America to see to it that every classroom in our country is connected to the Information Superhighway.

"By the end of this school year, every school in California - 12,000 of them - will have access to the Internet and its vast world of knowledge. By the end of this school year, fully 20 per cent of California s classrooms - kindergartens, elementary, middle and high schools, from one end of this state to the other-will be connected for computers.

"If that can be done in California, we can do it in the rest of America."

He emphasised, however, that the key was partnership - "the job of connecting California schools will be undertaken by a wide alliance of private sector companies, among them: Sun Microsystems, Xerox Parc, Apple, Oracle, 3Com, Silicon Graph-

great deal has been written about ics, Applied Materials, TCI and Cisco Systems. "Our administration has brought these companies together, we have set goals, but they are doing the rest," explained the president.

"Just as the connecting of our classrooms is a model for the 21st century, so is the way we are doing it here today - with government as a catalyst, not a blank

The president challenged business. industry and local government throughout the US to make a commitment of time and resources "so that by the year 2000, every classroom in America will be connected."

While the partnership between industry and government was important, educational reports revealed that "children with

High-tech goals will not be achieved by the government alone, says President Clinton

access to computers learn faster and learn better. Children mastered basic skills in 30 per cent less time than would normally have been the case. Also, they stayed in school - absenteeism dropped from over 8 per cent to under 5 per cent."

Clinton suggested that corporate America should look to work such as that done by Sun Microsystems, with its projects last year to organise a coalition of companies and volunteering in 'Net Day' - an effort to install networks in at least 2,000

"The number is growing with each new company joining the effort. In the morning, volunteers arrive at each school. By

noon they have wired the library, the labs. the classrooms. By nightfall, those schools have the technology they deserve," he added.

The president also cited the example of Smart Valley, a coalition of Silicon Valley companies that has contributed \$15m to putting technology in schools and is com-mitted to developing 500 model technology schools over the next 18 months.

Finally, he pointed to the work of the on-line services and telecom service-providers as an example of how industry is helping to advance these government goals.

"America Online has offered internet services for a year, AT&T is providing Internet access and voice-mail to all California schools." he said.

"Sprint is helping to connect the schools; MCI is providing software for entry into the Internet and helping to connect the schools. "And Pacific Bell, which has led the way

in linking California schools, is accelerating its efforts by hooking them up to high-speed phone lines." Clinton summed up the US govern-

ment's strategy with a few "guiding principles" that he said were central to the effort. These are "modern computers in every classroom, accessible to every student from kindergarten through 12th grade, networks that connect students to other students, schools to other schools, and both to the world outside. "Educational software that is worthy of

our children and their best aspirations and, finally, teachers with the training and the assistance they need to make the most of these new technologies," he said. But the goal would not be achieved hy government alone - "it can only be met the way these companies are doing it with communities, businesses, governments, teachers, parents and students all joining together - a high tech barn-raising."

■ National Geospatial Database

The ultimate map project

A centralised geographic data base offers valuable services to planners

f anything can help a stranger in Britain to explore an undulating landscape, it is an Ordnance Survey map. So it is appropriate that the OS organisation should be suggesting a route for central and local government to follow in order to make their terabytes of data more valuable.

The OS believes that if the thousands of data sets collected over the decades by government departments. agencies and local authorities abided by the same criteria then they could dove-tail together and add up to more than the sum of their parts. It is not surprising that the OS believes the criteria should be geographic.

Most of the information collected by governments about that which they govern has some geographical base: from bus shelter permits, to setaside rebates to radioactive incidents, the data has been recorded with a location ele-

That element has been defined by different data gatherers so often it is not easy to marry them. For example, a

house and street name is the same as a National Grid reference so it becomes hard to use two data sets together.

The OS is promoting the need for a National Geospatial Database (NGD) in which all the different data sets have geographical descriptors in a standardised format. The prize from such data linkage is better quality data through identification of data inconsistencies - and the generation of added value.

Perhaps the most dramatic example of the effective use of such integration was the database built by the task force led by the US Geological Survey following the 1993 flood disaster in the Upper Mississippi river basin.

This brought together data from several government agencies and played a leading part in the management of the situation. (ndeed, it led directly to the Clinton Executive Order mobilising the National Spatial Data Infra-

The establishment of a national database is specified in the OS Executive Agency Framework Document and it is working with several players, including the Land Registry, the Local Government Management Board and the Inter-departmental Group on Geographical Information to bring it about.

tion, fears of Big Brother grow, but the OS is quick to

scupper them.
"The NGD is not seen as a single, all-embracing collection of data sets held in one massive computer system. It is seen as being a 'virtual database'. It will comprise the totality of many individual geographical data sets collected and held separately by many different organisations," said Bryan Nanson, director of information management, Neil Smith, chief science advi-

Fears of 'Big Brother' have been quickly scuppered

sor and Alison Davey, of the NGD programme, when they presented their case at the recent Association of Geographic Information national conference.

There is an OS-run system in place already which should eventually become part of a much larger NGD. The Spatial Information Enquiry Service (SINES) has been running for two years, on behalf of the Department of the Environment, answering queries by post, phone and fax. Since the end of last year it

Whenever any organisation has also been available on-line

Wide Web. SINES provides details about more than 500 data sets held by government departments throughout the

With the on-line version nsers can query SINES by keyword, by organisation and by the area covered. It provides summary information concerning the data sets that satisfy the criteria given including a map that indicates the cover.

Neil Smith, Ordnance Survey's chief science advisor, says the version of SINES on the Internet is still in its infancy and could be the forerunner of a system which allows the browser to go even further, not just finding where data is held but also accessing it seamlessly.

....

٠.٠٠

375

13 - 1

3

5

11

ŝ.

3

ì.

-::::

₹ ? • . .

i e

4

 $< \epsilon_{2}$

d

.

۹.,

11

`t...

"In the future, more detailed information will be needed within SINES and its succes sors to support the applications that the NGD will

allow," he says.
"Quality information. increasingly quantitative, will allow rational selection of data sets with links to transfer - and invoicing - systems. The contents of the SINES metadatabase will need to be expanded and updated more frequently. It is essential than the 'one stop shop' happens if our vision of the National Geospatial Database is to succeed.

■ Government contracts: Problems for Italian IT suppliers

Hard lessons from the past

Investigations into bribe scandals paralysed the government's IT procurement process

The early years of this decade saw what amounted to a revolution in Italian political life. triggered off by zealous anticorruption magistrates.

Until this remarkable clean-up took place, most suppliers for state contracts had no choice but to enter into a tortuous process that owed little to product quality and specification. A series of cascading bribes and deals awarded on the basis of political loyalties

It is estimated that four million people were involved in the payment or receipt of bribes amounting to £2.25bn every year. The example of Olivetti illus-

suppliers who attempted to steer a course around the old system. Mr Carlo de Benedetti Olivetti's chairman, fought hard to keep out of the network of payments, known as Tangenti. But between 1988 and 1991, Mr De Benedetti has admitted that this policy was reversed. Reluctantly, Olivetti paid out £4.6m in hribes for government contracts.

The commercial reality that drove this decision is painfully obvious. Until 1987, Italy's leading IT company had only sold

£1m worth of systems to a aspects of technical assess prime candidate for such business, the Ministry for Postal Services. But once it bowed to a corrupt system, Olivetti saw sales to this ministry soar to £260m between 1988 and 1991. trates the difficulties facing IT Then Mr De Benedetti ruled against illegal payments. And orders from the postal service

> The collapse of this system of patronage has totally changed the system of tendering for government contracts. AIPA, a central authority charged with vetting all government IT contracts, emerged from a raft of laws passed in the wake of Italy's volte-face. The selection of all IT contracts worth more than £200,000 is supervised.

ment. It oversees the security standards of potential purchases and advises all government departments. AIPA should, in an ideal world, rationalise every aspect of IT procurement and strive to eliminate the duplication of assessment and systems implementation between different

Has AIPA really changed the face of Italian government IT? The fallout from Italy's outburst of public indignation over the scale of official corruption means some significant suppliers refuse to discuss the issue at all, describing all official contacts as too sensi-

AIPA is charged with all Mamoli, an executive of tion [or], an earthquake. But



being checked at Olivetti's plant at Scarmagno

French computer company there has been a real change in Bull, speaks about the new terms of discipline. Now we regime: "My feeling is that we have a lot of controls on every But Milan-based Maurizio have not really seen a revolu- contract."

The certainties that the

arrival of AIPA has created makes Mamoli's world a better place to do business. Bull has recently signed a

number of government contracts in Italy, including the supply of a large network of desktop workstations for the customs division of the Finance Ministry. The contract, worth more than £2.5m, includes 1.750 PCs backed up by 217 larger processing units.

IBM employs 1,100 staff in Italy, contributing to social security and central and local government systems. Mr Giuliano Ragni, director for government business at IBM Italy, notes that the years between 1992 and 1994 were very difficult. This was when the investigation into corruption moved into top gear, cleaning up the administration but paralysing the procurement process at the same time.

The impact of the Tangenti chaos of the past.

scandal was severe. Officials were in a state of shock in many areas of public administration. Nobody was able to take decisions. Mr Ragni makes a wry observation on the extent of that crisis: "The italian people can always manage a difficult situation. But this was exceptional."

By Michael Dempsey

Francesco Valdevies, a Unisys executive, works with 500 colleagues in Italy. He echoes IBM's Ragni in his reservations about AIPA, noting that it has 200 staff to handle the entire IT sector and often takes too much time to reach decisions. But Unisys is doing business with the new cleaned-up procurement body. It has begun managing IT for the Justice Ministry on a contract worth about \$4m a year. Valdevies is optimistic that Italian state IT is on an upward curve, with hard lessons learned from the

SOFTWARE AND IT SERVICES MARKET

1 Accounting & Finance Solutions

2-3Accounting Software

4 Activity &

Contact

Management 5 Advanced

JBA

Needles House, Birmingham Road Studiey, Warwickshire B80 7AS Tel: 01527 496444 Fax: 01527 496230

JBA System 21 Financials streamline the processe of exception analysis, performance measurement, budgeting and forecasting. It also guides users through the maze of legal, accounting and taxettor differences of the global marketplace. System 21 contains modules to cover every area of an

organisation's financial operations, both now and into the 21st Century.

Multi platform Coverage Video Image

Worldwide Recognition Application Accounting, Customer Service, Distribution and Production, with specific software for the Drinks, Apparel, Plant, Tool and Equipment hire industries

FaxBack Limited

Fairfield House, 24 High Street, Great Beckham, Surrey KT23 4AG Tel: 01372 450535 Fax: 01372 450538 **Company Description** Automated fax response systems first developed at Intel. Callers from any touchtone phone proceed through a simple voice-prompted menu keying in

numbers of documents requested plus their fax no. and the information is faxed immediately documents created from any Windows application. Can also transmit files. Call 24 hour demoline 01372 450535.

Software & cards for typical 4 line £8500 requires

Geographical Coverage Worldwide Blue Chip user list

Applications

Unlimited brochures datasheets maps forms price lists etc.

Systems Union Limited ersmith Broadway

London W6 9Dt Tel: 0171 312 4545 Fax: 0171 312 4546 Company Description

SunSystems is the complete, international client/server business solution from Systems Union. Installed by over 10,000 companies in over 160 countries, its global application is enhanced by: full multi-company and multi-currency processing and availability in 22 languages.

PC-Lans, Unix, Vax, NT, Windows 3, Windows 95. **Applications** SunAccount, SunBusiness

On application.

(KAI Computer Services Ltd. 6 Kings Exchange, Tileyard Road London N7 9AH Tel: 0171 609 3746 Fax: 0171 609 3742

OCTOPUS - The Activity and Contact Manager. FROM AMBIGUITY TO ACCOUNTABILITY. Let octopus extract the maximum from Your IT

Alleviate Communication Problems

Why restrict communication to specific functions/departments? Octopus does more than automate your daily activities. Appointments, telephone calls, letters, and task delegation are all connected to a contact.

Focused Operations With a total contact history at your fingertips you are on top of all developments, able to evaluate user productivity and monitor all activities. Octopus. Simple and flexible, enabling and empowering. Cost and seminar details availal on request.

Visual Image Dynamics Astra House, Arklow Road, London SE14 6EB Email: regreene@britsoft.co.uk Tel: 0181 694 0101 Fax: 0181 691 4581 The Clearest Solution Visual is a member of the Britannia Business Services Group which is a major supplier of hightech systems. Customers include large corporate

central government, local authorities, the police and health services. Visuals' highly innovative range of advanced systems leads the way in the exciting new technology of Image Processing. Very Fast Recognition Speeds at Low Cost

Hardware Links to existing video or CCTV systems Coverage Worldwide **Applications** Number Plate

Cost POA

Recognition, Security, Flow Density Monitoring, Manufacturing Control, Medical Screening



6 Applications **Management**

Business

Solutions

7 Business

Management

Systems

14 Client/Server

Accounting &

Distribution

Software

8-13

Icom Solutions Limited Lion House, PO Box 1240, Witton, Birminaham B6 7UH

Tel: 0121 356 8383 or 0171 379 1700

Formed from the MBO of IMI Computing, Icom Solutions has emerged as a best-of-breed compart combining expertise and skills developed form over 20 years experience in the IT industry. The company is a leading IT systems integrator operating in the fields of Workflow, BPR, Workflow Consultancy, Applications Management and Office Systems. These services encompass the integration of applications such as FileNet's Visual WorkFlo, Lotus Notes, Microsoft Exchange Server and Microsoft Back Office.

Workflow, BPR, Workflow Consultancy. Applications Management. Office Systems Integration.

Scala International

Scala House, 23-24 Bourne Court

ICOM solutions

Woodford Green, Essex IG8 8HD Tel: 0181 550 1994 Fax: 0181 551 7429 Product Description The International Scala Group develops and The International Scala Group develops and markets Scala, Accountancy Age's Accounting Software of the year 1994, which is a fully multi-fingual, multi-currency business management and accounting system. Supported from 54 offices worldwide, in 30 different languages, Scala is extremely flexible offering specific parameterisation and powerful multi-dimensional capabilities.

IBM compatible PCs, Networks, All Unix systems. Geographical Coverage Worldwide - 12,000 installations in 92 countries. 15 Computer Applications Scala Financials, Logistics, Busines and Manufacturing, available in DOS, Windows and

Security Evaluation Cost Price on application

Comshare - The Decision Support Company

22 Chelsea Manor Street, London SW3 5RL Tel: 0171 351 4399 Fax: 0171 376 5127

Company Description

Hardware/Compatibility

Applications

NEW - Commander Decision™ is a dynamic new decision support application for analysts, managers and executives that promotes innovative thinking, identifies alternative courses of action and monitors progress. Its desktop Interface presents business intelligence in five ways: graphically with charts; geographically with an integrated mapping system; visually, with colour-coded exception reporting; analytically with ad hoc queries and calculations; and proactively with Comshare's innovative alert system, Detect and Alert™. "Commander Decision's is a truly formidable decision support application." Bruce Lynn, Solution Developer Manager, Microsoft/UK

Client platforms include Microsoft's Windows 95, Windows NT 3.5 or Windows 3.1 (Win32s) operating system. Server platforms include Microsoft's Windows NT (Intel), IBM's OS/2; or Hewlett Packard's HPUX operating System.

Geographical Coverage Comshare is a global company providing software and support in 40 countries

.....

Commander Decision is an entirely new, client/server 32-bit software product.

Commander Decision's Microsoft Windows™ interface brings relative ease to the difficult challenges of:

· EIS/key performance indicator monitorino

 sales and margin planning · sales and marketing analysis product and customer profitability analysis

financial reporting and analysis merchandise planning and tracking

COMMANDER

DB WORLD - "The Database Warehouse Interactive Group Limited 12 Princeton Mews, London Road, Kingston-upon-Thames, Surrey KT2 6PT

19-21 March 1996 - Olympia 2 London DB World is the UK's leading showcase for database management systems and associated technology. DB World comprises a world-class conference, user case studies - 'DB Real World Experiences'. Free product seminars and a highly locused exhibition.

Entry to the show is free and all visitors receive a complimentary copy of a the OB World Research Report and Directory (worth £95.00), together with a free CD-ROM with sample applications and information for product evaluation. For further details call: Tel: 0181 541 5040 Fax: 0181 974 5188

World-Wide Web:

Covers FT 2000

http://www.soltinfo.com/softworld



Lawson Software Capital Piace, 120 Bath Road Hayes, Middlesex UB3 5AN Tel: 0181 754 8470 Fax: 0181 754 7788

Lawson. Software offers robust, client/server applications with proven business benefits for companies worldwide. Lawson has 20 years of experience in developing business applications, with high-end, corporate functionality. Combining that experience, with a unique underlying development technology strategy, Lawson offers future proof solutions - offering both high-end functionality and openness and integration to the newest technologies.

AS/400, RS6000, HP9000, DEC Alpha, Sun, Sequent, U6000 Appfications ccounting, Distribution Management, Materials lanagement, Lawson Tools and Open Enterprise

Secretary and the

LAWSON

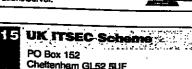
Movex (UK) Limited Savile House, Savile Road, Elland, Yorks HX5 0NU Tel: 01422 377611 Fax: 01422 310109

Company Description

"Integration, flexibility, ongoing and proven development path, real commitment to high quality international service and support are just some of the reasons why over 1100 major companies have chosen MOVEX software - often to support BPR and Rightsizing. Over 80% of MOVEX's sales are to pan-European companies, producing a tumover of £74 million per annum.

Name of the control o Geographical Coverage 45 Offices worldwide. Applications

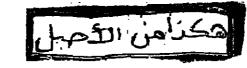
Truly integrated manufacturing, financial and distribution software. Strategy includes OOT and Client/Server.

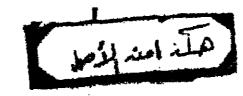


Tel: 01242 238739 Fax: 01242 235233 An Insight into the UK ITsec.

Computer security evaluation is the detailed testing of the security features of a system or product to ensure that they work correctly, effectively and sufficiently strongly to meet the claims made by its

The national security evaluation body in the UK is the IT Security Evaluation and Certification Scheme (ITSEC Scheme) which started in July 1990. The Scheme, administered by a Certification Body based at Cheltenham, is jointly managed by DTI and CESG. uk sec





SOFTWARE AND IT SERVICES MARKET

16 Consulting Services

SRUARY 718

Lesivige' Central

The Personal Property of the Personal Property

todil be ne b

and the

Laxes pull

water toler if ge

The late of the late of

to the state of th

the fallows par

test testion and AND ALL SECTIONS

the the longer

By Tom Forense

Control of the second of the second

outlet #

" in special region

The starter

The second states

The state of the state of

The Control of the Park

or other to depay

1.00

1 200 27 2

The second

A SECTION

THE STATE

ರ್ಷ-೧೯೯೩ರ ಕಕ್ಷ

90 175 1<u>225</u>

50 0 00 00 00 00 25 35

'ss paperwon

.... TZ

تجعيب إنسان

: Geoffrey Wheeling

: ٠.-

MCIA Modem

FORMATION ON THE

TA MODEN WITH ME

ture

T.

.

17 Data Management

15 Distribution Manufacturing & Financial Solutions :

Document Management Software

19 Electronic

20 Electronic information Systems The Hunter Group 20 Serkeley Square,

London W1X 5HD Tel: 0171 629 7629 Fax: 0171 629 7621 Company Description

Specialising in Human Resources information management, the Hunter Group helps organisations plan, develop and implement strategies and information systems solutions to support personnel, payroll, and benefits administration, with an emphasis on client/server computing platforms. Our services range from strategic systems planning and process improvement to product implementation management and support.

Geographical Coverage United States, Europe and Asia Pacific Applications Implementation Services, Management Consulting and Training Services

Hunter

MR-Data Management Group Pic

47 Rastwick Street. Landon EC1V 3PS Tel: 0171 250 3377 Fax: 0171 250 1873

Company Description

MR-Data Management Group provides comprehensive facilities management and outsourcing for data management requirements, Services include: Image and data capture, electronic printing, secure off-site data storage and market leading Memex software. Mardware

Atl major systems **Geographical Coverage** UK, USA, Middle East Applications

All image and computer data.

Minerva Industrial Systems plc Bovis House, Lansdown Road, Chellenham, Glos GL50 2JA

Tel: 01242 242566 Fax: 01242 236107

GUI, OO, ROBMS. 4GL, 200+ platforms

Geographical Coverage Worldwide multi-lingual

agrated solutions for manufacturing industry MFG/PRO, Progress, Oracle.

FilePlus Europe Ltd

Coworm Park House Ascot, Berks St 5 7SF Tel: 01344 875050 Fax: 01344 873622 email: 100137,2021 @compuserve.com

oduct Description File Plus Professional 2 is State-of-the-art Document Management Software for the Professional Office environment. This Windows stations software indexes either scanned or DDE Linked files, stores images, searches for, retrieves and prints documents in the fastest, most efficient, secure and convenient way possible.

Hardware Stand stone or Networked PCs running Windows 3.1 or higher, 486 DX2 66Mhz, 8Mb RAM.

From £1,995 stand alone or from £2,995 for a 5 User Network system excl. VAT

DI ACL

Lloyds Bank Chambers, The High Street, Southam, Warwickshire CV33 0HA Tel: 01926 814056 Fax: 01926 814880

Company Description

ACL designs corporate executive and management information systems with a particular bias towards retail environments. The ACL EIS product provides a complete financial profile of a business and allows powerful analysis of products, customers and suppliers across the whole organisation.

Facilities include promotion tracking, custome pattern analysis, integration with third party demographic data for marketing purposes, mapping.

Crosby House, Meadowbank, Furlong Road.

Tel: 01628 850850 Fax: 01628 850243

Company Description
Software 2000 offers a comprehensive suite of financial
and human resources software designed exclusively for
the IBM AS/400 server and related technologies, using

client/server and object oriented technologies to provide easy-to-use icon and graphical screens and integration with popular windows spreadsheet and word processing

packages and taking into account all the requirements of the multinational corporation. Software 2000 has over 1200 clients worldwide.

IBM AS/400, Server, Client Server - OS-2, Windows, MAC.

UK, Mainland Europe, USA, Australasia, Asia. Sth Africa.

management & human resources \$25,000

Applications Financial, Marketing and Sales

25 Software 2000 UK

Bourne End, Bucks SL8 5AJ

GIS and close integration with EPOS

21 Enterprise Applications

1100

22 European Accounting & · Business Systems

23 Export & International Trading

24 Financial & Accounting 25 Finance

26 FT.IT

Management

Software &

IT Services

Management

.System

27 Geographical

Information

Connectivity

Software

30 Integrated

Business

Support

Systems

Services

28 Guardian

29 IBM

2 SSA

Frimley Business Park mberley, Surrey GU16 5SG Tel: 01276 692111 Fax: 01276 692135 Company Description

With over 7,000 client implementations, BPCS Client/Server represents the world's largest installed base for a single enterprisewide proline addressing integrated process and discrete manufacturing, supply chain management, and global financial applications.

As 400, RS 6000, HP9000, Digital Alpha.

26 Heroix Corporation Ltd

Yeomans Court, Ware Road,

Hertlord SG13 7HJ, England

Tel: +44 (0) 1992 500006 Fax: 01992 500065

Can you reduce the cost of managing your systems

and provide users with better service and increased

productivity levels? RoboMon can. This powerful

software solution detects and automatically

formulates the correct solutions to system problems.

Heroix Corporation is a well established company

with a proven history in system managemen

services and solutions for VMS, UNIX-DEC, HP

Coverage Over 40 offices worldwide.

Company Description

IBM. SUN & Windows NT.

Include 16 of the Times

Top 30 Companies.

Worldwide

Users

Geographical Coverage



HEROIX

International Business Systems 1 Imperial Place, Elstree Way Borehamwood, Heris WD6 1JN Tel: 0181 2075855 Fax: 0181 2078770

Company Description IBS is a wholly owned subsidiary of IBS AB, a Swedish public company and one of the leading software suppliers with over 3000 customers workdwide. The ASW Portfolio is a full range of application software with a GUI Interface providing innovative solutions to loday's business needs; including Pan European requirements and EuroVA acting in a true Multi currency environment. ements and EuroVAT

AS/400 Client Server, Windows and OS/2 GUI

Coverage 65 Offices in over 30 countries worldwide. Applications Financiale, Distribution, Inventory, Asset, Service, Production, Manuta Project, Warehouse Management,

14/15 Regent Parade, Harrogate

Tactician UK are the master distributor for the Tactician range of desktop sales and marketing mapping software.

Windows, Windows NT (Intel and Alpha), Macintosi

Tel: 0171 8301300 Fax: 0171 8301333

With integrated client server technology and

focused design for business applications, T is the essential choice for corporate - wide

Tel: 01423 560064 Fax: 01423 525545

North Yorkshire HG1 5AW

EIS and FMCG.

Hardware

analysis

From £1000

Cost

Tactician

Company Description

Coverage United Kingdom and Europe

Elan .

93 Newman Street

nistered we have a real un

consultancy requirements.

Company Description Established in 1987 Elan provides IT and

communications recruitment services.

Acknowledged as one of the City's leading

suppliers with over 10,000 financial specialist

Applications
Retail, territory and demographic

UK - expanding to worldwide

WorldPro Software Limited Franklin House, Parsonage Square,

Dorking, Surrey RH4 1UP Tel: +44(0) 1306 741166 Fax: +44(0) 1306 741177

ExportPro and TradingPro: Windows software solutions for exporting and international trading; marketing:planning, costing-pricing, quotations/orders, documentation, buying and selling. Easy connectivity to other systems; adaptable into other languages and to neet international requirements.

Hardware On all Windows compatible PCs

Geographical Coverage

28 LanOptics Pic

Thamesbourne Lodge

OS/2, Windows NT, Windows 95

Geographical Coverage

Global

Cost

25,000

Applications

Internet Security

ation Road, Bourne End, Bucks SL8 5QH

Tel: 01628 533433 Fax: 01628 532252

LanOptics' Guardian is a transparent Internet

networks against unwanted infiltration from the

Internet. Features include a uniquely user-friendly

control interface and support for OS/2, Windows 95

firewall that cost-effectively protects private

Revelation Software

Central Milton Keynes MK9 1DP Tel: +44 (0) 1908 233255

Revelation Software provides the only suite of

application development tools that provide native

otes. VIP is a visual programming tool for the

single developer who needs to create applications quickly; **OpenInsight for Workgroups** gives

Revelation Reporter enables both novice and

expert users alike to create quick but sophisticated

access to the rich, unstructured data of Lotus

users network-aware, multi-user capabilitie

collaborative development; and

an active extensible repository that facilitates

Fax: +44 (0) 1908 233220

270 Upper 4th Street

Company Description

Orion House, Orion Way Kettering, Northants NN15 6PE Tel: 01536 495200 Fax: 01536 495201 eny Description

24 Pegasus Software Ltd

A leading supplier of accounting solutions from the small business to medium sized companies requiring a tailored solution. Pegasus also supply ted sales and marketing, manufacturing and DI solutions linked to the financial core. Pegasus have solutions for the DOS, Windows or working environment.

United Kingdom

Applications Accounting/Business

Cost

1.4

From £500

Netsoft International Limited Coach House Cloisters, Hitchin Street, Baldock SG7 6AE Tel: 01462 490094 Fax: 01462 490919

Company Description Netsoft designs, develops and distributes a range of software products that provide easy, reliable and cost-effective client/server software solutions, linking PCs and PC networks to IBM mainframe and AS/400 computer systems. Netsoft are available for Windows, Windows for Workgroups, Windows NT, Windows 95 and IBM's OS/2 and Warp operating

Geographical Coverage International.

IBM mainframe and AS/400 connectivity.

First Information Group/

Knightsbridge House, 197 Knightsbridge.

Company Description Bespoke multimedia business to business solutions. The Consumer Division, FlagTowerTM, publishes highly acclaimed interactive documentaries combining stunning graphics, text

documentaries combining stunning graphics, text

Releases include The Space Race, World War I, World War II, War in the Pacific, Great Generals of the 20th Century and A History of Medicine.

Flag Tower™

London SW7 1RB

Tel: 0171 393 3000

Hardware/Compatibility
Multimedia IBM PC and compatibles

Geographical Coverage

World-wide

Single disk: £29.99

Double disk: £39.99

Cost

Apex Group

Geographical Coverage

Totally integrated financial

Hardware

Applications

Apex House, 2 Watting Drive, Sketchley Meadows Business Park, Hinckley, Leics. LE10 3EY

Cost

Entry Level Price

Company Description
The Apex Group has provided IT solutions to companies in the manulacturing and distribution sectors since 1982. It is the leading implementation specialist for Chameleon 2000/CS3, the integrated Financial, manulacturing and distribution system from Tetra, with over 250 successful customer installations in the UK.

Hardware Unix, Novell, Windows NT, Birieve, Informix, Oracle, SQL Server

Geographical Coverage Apex Group has offices in Hinckley, Sheffield and Southampton. Applications
Tetra Chameleon 2000/CS3

Fore Systems Inc.

Birmingham Business Park B37 7YE

Fore Systems is the world-wide leader in the design

performance local area networking products based

on ATM (Asynchronous Transfer Mode) technology.

elecommunication service providers, Government

over 1,000 customers in 40 countries including

Agencies, research institutions and universities.

Fore Systems products currently constitute the largest installed base of LAN Solutions.

development, manufacture and sale of high

Tel: 0121 717 4459 Fax: 0121 717 4455

2475 The Crescent

APEX

****** 31-32 IT. Recruitment

33 Lotus Notes Application

34 Multi-media Software

35 Networking

36 Networking

37 Networking &

38 On-line

Business

39 Outsourcing

π

40 Sales and

4742

Public Sector

п .

Publishing

Events-

43 Technical

Service .

. . -

Provider.

Marketing

Information

Infrastructure

D.C.I.S. Limited

East Molesey, Surrey KT8 0HY Tel: 0181 941 3995 Fax: 0181 941 3390 Product Description

Consultant Direct, offer employers remote access to databases containing the full details of IT Contractors and Consultants. Simply choose contact and hire directly!"
Hardware IBM compatible PCs, Networks. Geographical Coverage National and International

Applications Can interface to existing Personnel/Database Systems. Cost Licensed at

The PeopleWare96 services, Contractor Direct and

uxeo cost of £1,200 per quarter People Ware 96

296A. Walton Road.

desired skills, products, industry and availability on you local PC and the query will immediately return tes who meet the selection. Then you can

Gandalf Digital Communications Ltd Gandalf House, Doncastle Road, Bracknell, Berks RG12 8GD Hotline: 01344 55555 Fax: 01344 303093

Company Description Gandalf is an international manufacturer of high performance networking products, serving the needs of blue chip, medium and small companies worldwide. Leading products include low cost of ownership remote access and concentration products, supporting teleworking. Internet projects and regional/head-office networking requirements. Call our hotline for details.

Geographical Coverage Worldwide

Hardware

Across the UK, Europe, Far East, USA

Island House, 43 High Street,

Building bridges between Industry and Government funded organisations requires a clear

understanding of each others business visions. X-

Net achieve this by providing technical consultancy to public bodies and service providers in the field of

If you are bidding, or preparing to outsource, and

you need quality solutions and assistance, you

Fordingbridge SP6 1AU Tel: +44 1425 656661

Fax: +44 1425 657723

networking and IT Infrastructures.

the independent technology

Geographical Coverage

consultants.

international

need the face behind success: X-Net

npany Description

X-Net Ltd

Applications

Elan₽

N G

TACTICIAN UK

Tel-Me

Tel-Me Information Centre, PhoneLink pic FREEPOST (BS 6851) Bristol BS8 4YY Tel: 0800 991155 Fax: 0800 317206

REVELATION

Company Description Tel-Me is PhoneLink's PC based on-line business information service which provides UK businesses access to essential everyday information quickly, cheaply and effortlessly, information available on Tel-Me includes telephone numbers (business telephone numbers and addresses are tree), train timetables, route and street maps, company financial records, hotels and much more.

Hardware 486, 8Mb, WIN Cost From £49.95

- VAT

LANkind (UK) Ltd

Tel: 01256 851500

"LANkind have met two apparently contradictory

requirements, reduced costs and increased service

wels, without the solution suffering in any way' -

LANkind are a Technical Service Provider (TSP),

providing high level networking services to

corporate clients for enterprise wide solutions

company, LANkind's areas of expertise include

strategy, design and implementation of NetWare 4x,

LANkind have more Master CNE's than any other

company in the UK, and have fulfilled the needs of

irrespective of complexity. As a service only

Fax: 01256 851600

any Description

evaluators comments.

NDS and MS-Networking.



39 CFM Group Ltd Westhorpe House, Westhorpe Marlow, Bucks SL7 3RQ

Tel: 01628 488888 Fax: 01628 488088 any Description CFM is one of the UK's fastest growing and most

successful IT outsourcing companies. With a turnover of over £120m pa and over 100 clients, CFM has unique experience of its core business. CFM's success in both the public and private sectors is based upon its continued investment in people and its ongoing commitment to client service.

Hardware CFM solutions are system independent, encompassing all major vendors. Geographical Coverage

CFM operates throughout the UK, with over 30 locations. Applications
CFM supports oracle open applications.

Flaglower

PeopleSoft UK Ltd Apex Plaza, Reading. Berkshire RG1 1AX Tel: 01734 522 000 Fax: 01734 522 001

Geographical coverage Imemational

Local and wide area networking

Applications

Company Description
PeopleSoft develops and markets PeopleSoft
Financials, PeopleSoft HRMS, PeopleSoft Distribution
and People Tools, a powerful application development
and customisation environment. PeopleSoft combines
graphical user interface, relational database
technology, and client/server architecture to deliver
superior product functionality and technologically i
Innovative applications, with the best customer service
in the business. in the business.

IBM, Digital, Hewlett Packard, Data General, SUN, NCR. Coverage Fortune 500 and Fortune 1000

Applications
PeopleSoft Financials, PeopleSoft
HRMS, PeopleSoft Distribution,
PeopleSoft Manufacturing.



Government Group

Publisher and event organiser specialising in the UK Public Sector

Government Computing and Information Management Published 10 times a year, GC is read by information management professionals throughout central government. GC '96 Conference and Exhibition, Westminster, 12-13 June. Co-sponsored by Andersen Consulting.

Information Technology for Local Government, published 10 times a year, is read by information management professionals throughout local authorities, housing associations and the voluntary sector.

Public Sector Procurement and Finance is read by senior managers and procurement and finance specialists throughout the public sector.

Call 0171 587 1551 for sales, subscriptions, contract publishing and event management. Call 0171 562 9191 for editorial e-mail: gov.group@dial.pipex.com



over 45,000 network clients to date.

Bodet Limited Unit 4 Sovereign Park, Cleveland Way Hernel Hempstead, Herts HP2 7DA Tel: 01442 234141 Fax: 01442 234345

Company Description Bodet offer comprehensive solutions to time and attendance processing with a range of computerised/stand alone systems. All systems interface with various payroll/personnel softwares. Management Reports on manpower/absence/access. Bodet also manufacture office and industrial clocks including digital world mutti time-zone displays. Geographical Coverage

SOFTWARE MARKET REPLY SERVICE Should you require turther information on any of these advertisers, simply fill in the coupon and return it to: Box F717-1 96 Financial Times, One Southwark Bridge, London SE1 9HL.

Company Name: ... Position in Company:

Telephone Number:.....

2 FaxBack Limited 3 Systems Union Limited 4 KAI Computer Services Ltd. 5 Visual Image Dynamics

7 Scala International 8-11 Comshare 12 DB World 13 Movex (UK) Limited

14 Lawson Software

1 19 FilePlus Europe Ltd.

6 Icom Solutions Limited

15 UK ITSEC Scheme 16 The Hunter Group 1 17 MR-Data Management Group Plc 1 18 Minerva Industrial Systems Plc

20 ACL 21 SSA 22 International Business Systems

23 WorldPro Software Limited 24 Pegasus Software Ltd. 25 Software 2000 UK

35 Fore Systems Inc. 36 Gandalf Digital Communications Ltd 🗓 37 X-Net Ltd 38 Tel-Me 39 CFM Group Ltd

26 Heroix Corporation Ltd

29 Netsoft International Limited

27 Tactician

32 Elan

28 LanOptics Plc

30 Apex Group

31 D.C.I.S. Limited

33 Revelation Software

34 First Information Group

40 PeopleSoft UK Ltd 41-42 Government Group Ü 43 LANKING (UK) Limited 44 Peritas Ltd

45 Staffware Plc 46 Bodet Limited \Box

 \mathbf{D}

44 Training & . Consultancy

45 Workflow **Automation**

46 Workforce Management



World-wide

Peritas Ltd

Company Description

Berkshire SL4 2UP

training facilities management.

Geographical Coverage

Beaumont, Old Windsor, Windsor,

One of Europe's largest consultancy and training

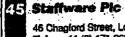
systems training; multimedia consultancy/training;

organisations, Peritas provides: information

human development consultancy; change

management; skills training; training venues;

Tel: 01753 868181 Fax: 01753 841775



46 Chaglord Street, London NW1 6EB Tel: +44 (0) 171 262 1021 Fax: +44 (0) 171 262 3956 Company Description

Recognised as the top independent production workflow system by leading inclustry analysis, Staffware automates departmental and enterprisewide business processes, Staffware integrates with external databases and other software packages including e-mail, text and image processing and including e-mail, text and image processing and general office applications.
Hardware Compatibility
UNIX servers, Windows N7 client/servers, support for character terminals, Windows 3X and '95 and AppleMac clients, OS/2 in Q1 '96.

Staffware

and the second of the second o

Geographical Coverage
Worldwide - Europe, the Americas, the Middle and Far East, Japan and the Pacific Rim. Applications
Cross-industry and
vertical applications. WORKFLOW

From £585

UK/Europe Applications Workforce Management 1-450 employees single/multi site.

Bodet

Enterprise intelligence systems: Data access and reporting tools Reward offered for inside information

Employees want computers to help deliver insights, not just mere numbers

nterprise intelligence systems. EIS - now re-christened since their first outing as executive information systems - exist so that business users can get their own insight from manipulating the facts and figures.

The old-style EIS presumed that the view from the top needs more insight than anyone else's, and more help getting it. That is a dangerous assumption, according to Mr Nigel Pendse, principal of consultancy OLAP solutions, and co-author of the OLAP (Online Analytical Processing) report by Business Intelligence of Wimbledon.

"EIS for executives was discredited for two reasons," says Mr Pendse "It was based on the hypothesis that if senior executives had access to data. they would do their jobs better. It was flawed, because that's not how they spend their time - and they tend to rely on people and opinions, not facts and

Even if true, the double problem was overcoming the technology: the IT people thought a lack of keyboard skills indicated a lack of intelligence, and produced what I call 'patronising' systems."

Hence, argues Mr Pendse, the change from E for Executive to Enterprise or Everyone's in the acronym, EIS. Once the scale changed, from a few users in the boardroom to hundreds of potential users. the EIS price-tag also became unrealistic for a simple information system.

Eventually the penny dropped that hand-crafting claborate screen displays was a waste of time; screen displays were not an issue for the people who turned out to be the real users, whether executive or otherwise. The emphasis changed to getting hold of the data," adds Mr Pendse.

"Data turned out to be the real issue: getting hold of it and making it consistent, and delivering it to the right people. The key is automating that entire process," he says.

Software at Work

How enterprise intelligence systems help to identify new business opportunities

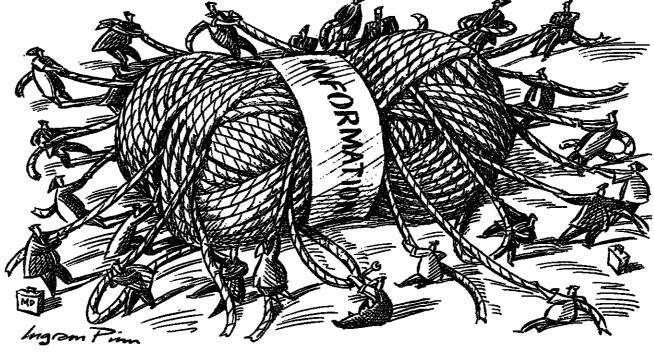
The trouble with historical data, he adds, is that the company structure will certainly have changed, and the level of historical detail available may not be adequate to re-state the history in a form compatible with the current structure.

The new-wave merchants of

"data warehousing" tools have certainly seized on data cleans ing as a significant activity. Mr Ram Srinivasan, product director at Los Gatos-based Red Brick Systems, identifies five distinct components of analysis access and reporting -"users need to get data out of operational systems, cleanse, scrub, reconcile it. The business user accessing the data warehouse and asking ad-hoc one-off queries is at the other end of the process".

Red Brick participates in the middle, grasping that data and loading it into the data warehouse database in an overnight window - "an example might be a drug store, updating the day's Epos telectronic point-ofsale) transactions. We help manage data and provide connectivity".

Whereas the old-style EIS systems were delivered to consumers, the data warehouse



approach is to provide users with a query tool which allows them do it themselves.

In the opinion of Mr Pendse. the difficulty is getting the balexperienced computer users,

Data analysis: Towards the information suite

and giving novice users access to a simple tool - "some of the vendors got it wrong by making it too complicated, and others got it right by pitching it as ance right between tools for a simple level, suited to an enormous market. In my opinion, Arbor got it right, so did TM/1 from Simper Corp, and Cognos with PowerPlay, which now has over 100,000 users". Cognos, he says, has won a larger market by keeping it simple - without being trivial

The holistic approach is to have lots of features. Cognos is to keep it simple".

The balance between simple

and powerful is no easy act. SAS Institute, whose SAS System is one of the most sophisti-cated analysis tools available. has just launched a financial modelling suite aimed at achieving the right balance.

Its previous EIS suite was dismissed by Mr Pendse as being for "idiots or programmers - with nothing in between". The new approach guarantees a robust application, which will nevertheless allow the user to cruise for information and refine queries in the process known as "data mining".

Another interesting development has been the addition of "ElS-like" extensions to accounting suites, such as D&B's Smartstream and Tetra's Chameleon CS3 and Legend products.

Mr Tom McDonagh, product marketing manager for Smartstream, says that decision support. OLAP, and EIS-like facilities were central to the Smartstream strategy.

"We were criticised for being slow to market with clientserver solutions, but we did it - whereas Holos, from holistic. "is labour-intensive to build, right because we built a combut it builds excellent systems. mon architecture, and we built workflow into Smartstream from the start: that's a bandwagon others are now keen to

"The common applications architecture we use supports all the core process, but the desktop interface integrates images with text, spreadsheets. and all other components of

This last idea, of introds an element of sharing and distribution of the data, could not be further from the original exclusivity of the Eis. Yet it has retained the eleme disparate sources, and different

formats.

It is this ability to give the full overview that makes the data warehouse so alluring a consolidation of data from different sources, with powerful search and retrieval tools which allow the user to trawl and explore correlations.

' lequiries

"Business and TP are really acting as one through the data warehouse, which is why it has caught on so fast," concludes Mr Ram Srinivasan "Management systems allowed people to automate activities in isolation, creating islands of efficiency. This approach turns the picture upside down, connecting those activities so you can look at the situation from the customer's point of view. It changes the basis of competition, so that IT has a wider role in identifying new bustness opportunities.

New ways to extract key business data

Companies need more software tools to cope with increasing volumes of information. They may even get them in suites

s competition becomes interactive multi-dimensional more intense, the amount of information available is increasing dramatically. Organisations are going to need to analyse and exploit larger volumes of information more effectively than their competitors.

Users may already have Information Enterprise Systems (EIS), On-Line Analytical Processing (OLAP) servers, data warehouses and query tools to provide them with business intelligence, but these are not going to be enough.

view of data, using powerful analytical functions and can be accessed by a variety of tools, including spreadsheets and

A whole range of informa-tion tools already exist in specialist areas and they are going to be used more widely in conjunction with existing tools. These will include data mapping, data visualisation, data mining, neural networks, intelligent agents, text search, business rules and others.

Desktop mapping software OLAP servers provide an provides a graphical view of It allows users to find new

data, superimposed upon a digital map. Microsoft says that 90 per

cent of corporate data already has a geographical dimension, such as an address or telephone number. This can be converted to latitude and longitude which can now be stored by relational databases. This, in turn, allows users to

explore the business environment geographically, comparing data in relation and proximity. All this can bring a new

further analysis. vision to the underlying data. By following the linkages. data visualisation makes it

ket sizes and penetration.

ata visualisation tools

provide a three dimen-

sional graphical repre-

sentation of corporate data,

showing relationships and rela-

tive sizes. Users are able to

navigate through a three-

dimensional view of their data

by steering with a mouse. This

shows vertical histograms and

lines which show linkages to

information, such as how many customer-sites are the relationships within differwithin a hundred miles of a ent parts of the database. They are able to gain a better overall factory. Integrating external understanding of the structure demographic data can show of their data and therefore the such information as local marbusiness environment which it

> Data visualisation may also include data mapping. Microsoft has recently demonstrated this as a future function in its Office suite. Alternatively, data mapping may show a visual picture of

where information lies physically within an organisation. allowing users to identify sources of information or related records.

Data mining tools allow users to examine large yolumes of numerical data to discover hidden patterns and cross correlations. These would be difficult or impossible to establish using normal queries and analysis techniques. They differ from traditional tools because the user does not know what question is to be answered.

The main technologies used are genetic algorithms and neural networks. Genetic algorithms establish pattern rules and decision trees from the

Neural networks are computer programmes which can be said to work in the same way as the human brain.

An AS/400 Advanced Series Solution



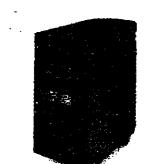
is a client/server network that sends sales data throughout the Sega empire instantly

> and the ability a moment's notice.



to add more power at





He was also the first at Sega to see that AS/400 Advanced Series could do all this with lower administrative costs than other platforms.

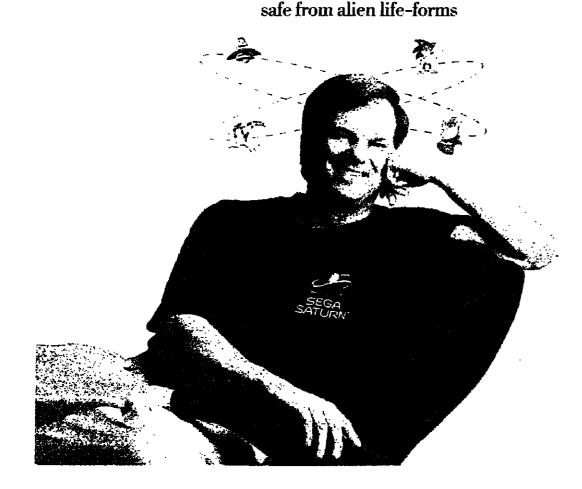
B hen your business grows from zero pounds to seven hundred and fifty million pounds in fice yours, choosing a client/server system that can keep up with the growth is pretty important. Which is what Bill Downs of Segulars found with 48/400 Advanced Series.

"In five years, we probably would have ind two or three different business systems if we had started with something that didn't scale as easily as ASA00." says Bill, "None of us had the ideo we would grow as fast as we did."

Bill has his 48/100 Idvanced Series running the entire business. He's using it to process orders and schedule delivery to 20,000 retail stores overnight. He has his company's PCs, Apple Mass and Silicon Graphics workstations rouning off it. And his 48/100 Advanced Series does all this with a technology budget of less than two-tenths of one per cent of revenue, and with minimal support stuff.

If you'd like to see hore you can manage busines greacth at lower cost with 487400 Advanced Series, call your local IBM dealer, Or visit our home page at http://www.as/00.ibm.com

Solutions for a small plane



Behind Bill Downs'

success in keeping Earth

Hidden business patterns revealed

Continued from previous page:

which is usually poor at complex arithmetic but good at recognising patterns in incomplets.data.

Neural networks are models of the human brain which can be trained, rather than programmed. They are presented with actual data, from which they are able to recognise pat-terns in data and convert these into a business model. This model reveals the hidden pat-

The model also allows applications to be used outside data mining to make judgments and forecast events, which are both very important aspects of decision support. Neural networks do not replace conventional programmes, but augment them and hybrid systems are being developed.

Inquiries

Another means of coping with large amounts of data is the use of business rules in generating more complex and powerful queries. A normal query would only select data hich fitted strict criteria and display it as a simple list. However, business rules can be used to provide weightings and preferences. The query would then search data outside the original strict definition and produce a list ranked in order

An example might be a traditional query of customers with turnover of more than £5,000 in the last three months. The use of rules could include high in a ranked list of importance customers who spent £10,000 in four months, along with customers spending £4,000, but in the last month. This could provide a far more useful answer than would be generated by a traditional query.

Managers are going to need sophisticated text search tools to read documents and identify and prioritise what is relevant

Originally developed for the CIA, this technology allows managers to build up a complex definition of their areas of interest in English language terms. The software reads the text and produces a list of docorder of relevance.

Intelligent software agents are needed to search relational, multi-dimensional and text da abases for user-defined exceptions and alerts and report them to the user in any format they choose. These agents run constantly or on a heduled basis, without user initiation and may include text search and neural networks. They learn from the user what is relevant or important to

them as they are used. Newcomers to the EIS and OLAP market are appearing and established companies. such as Sybase and Business Objects, are developing new OLAP products. They are trying to bring better technological solutions to the market.

Intelligent agents

The traditional vendors of information applications, such as Cognos, Comshare, Oracle's OLAP Division, Planning Sciences and Pilot are competing by extending their product ranges by embracing these new technologies. They are now offering intelligent agents, data mining, data visualisation, desktop mapping and neural networking to their users alongside their existing information products.

It at unreasonable to expect users to evaluate niche products and integrate them. whether themselves or with consultants.

Leading vendors are in an ideal position to integrate newer technologies and incorporate them into their applications or market them as easy to use complementary tools. This way, users should be able to use these new technologies to reap additional business intelligence from their ever

increasing data volumes. We have seen a market consolidation process start with Oracle and Informix purchasing EIS and OLAP companies. This irend allows leading vendors to provide an increasing range of information tools to their customers. This could be harmful to users if the integration between products made them proprietary. However, organisations such as the OLAP and Metadata Councils should prevent this by enabling different vendors information tools to work

There is a logical outcome to this 'one-stop-shop approach'. Just as users took to personal promictivity software suites, so we might see the introduction of information suites, with a range of integrated tools for

Reinsurance applications

Better ways to assess risk

How an enlightened international company uses its intelligence

he US-owned Employers' Reassurance Inter-national is the third largest remsurance company in the world. Its latest IT innovation – an information delivery' system that channels data from all over the world - took the unusual route of commissioning a espoke system using 'intelligent' techniques to ferret out relevant data

Well-known insurance agents and companies who specialise in life insurance are the main clients for Employers' Reassurance's service. A large proportion of its European business takes place in the UK, through its City of London-based beadquarters, but the company has offices in Germany, France, Denmark, Tokyo and other financial centres. It works through agents and subsidiaries in the Middle and Far East, South America and elsewhere.

This far-flung network poses specific IT challenges, but more important is the core activity of consolidating all the data from different sources, and assessing the degree of risk inherent in the

"Our client-companies regularly send us information at the end of the month for us to reconcile the data and figures," explains Tariq Shafique, a business analyst for Employers' Reassurance. "It was all coming in different structures, and we found that they were finding difficulties generating the data to meet our needs."

Mr Shafique set out to look for a system that would ease the flow of information between clients and within Employers' Reassurance, but also be highly adaptable and easy to use for the clients themselves - "we set up a pilot project, in July 1995, to improve the process for the customers, and decided to start in the Middle East. where there seemed to be the most problems. The Oman Insurance Company was keen to solve this difficulty, so we started with them. The mix of tools they had - word processing and spreadsheets and small PC-based databases simply gave no structure or

intelligence to the data".

BAT industries

BAT has installed a

inefficiencies out of

his month BAT Indus-

installation of a supply

chain management system

based on Holos software, which is produced by the UK

The £1.5m project has taken

BAT hopes that its new Fore-

sight suite of applications,

built around Holos, will match

supply and demand more closely. Its aim is to cut out

losses of stock that has deterio-

rated due to overstocking and

losses of business due to

Mr Brian Atmore, BAT's

business area manager, says

the company is confident that

it can save at least £820,000 per

year over the next two years.

mainly by reducing problems

the efficiency of the interna-

tional company's UK factory at

Our belief is that through

better planning we can manage

The international tobacco

In 1993 consultants at Price

Waterhouse drew up a list of

around 20 possible suppliers of

our cost of production better,"

The system should improve

understocking.

of overstocking.

Southampton.

Mr Atmore says.

Brands

other factories.

two and a half years to come to

company Holistic Systems.

tries will complete the

the supply chain

new system which

will squeeze

Fortunately, Mr Shafique's

well-known management consultancy as an expert on business process re-engineering.
"We had to analyse what

needed improvement, and look at their business practices. It took time to develop to the level of complexity needed - the problem was bigger than just looking for inter-



Tariq Shafique, business analyst: We worked to a strict deadline on a fixed-price contract'

rogation tools: we needed a tool that provided MIS and EIS-like functions, but which also added real intelligence to the data. The resulting applications would be used at the core of the company to run the life administration." Employers' Reassurance

looked at a number of tools for the development of Microsoft Windows-type applications, including, PowerBuilder - "every tool we came up with required a lot of specialist development skills from programmers who knew the business: that simply wasn't an option, because of expertise and resources," says Mr

Flexibility

He spotted a Software At Work story in the Financial Times about Horizon, a Leicester-hased software house, doing very similar flexible reporting on research in the medical field.

"We realised that it could he valuable experience for us." says Mr Shaffque, who approached Horizon for an timate, on the basis of using its Safena software development tool

"The people in Oman wanted a system up-and-running in January. Not only was Horizon's estimate half the cost of the closest competitive

what would today probably be

described as online analytical

processing (Olap) software

suitable for use in the Fore-

Most of the products, it was

found, could handle sales fore-

casting but could not provide

multi-dimensional modelling,

available in a Microsoft Win-

dows version, a requirement of

BAT. Holos and Kenan Tech-

nologies' Acumen were short-

apply business rules and view the information in at least six

different dimensions," says Mr

which at that time was robust

enough to allow us to under

"Holos was the only product

Holos was chosen to run on

top of a more conventional.

relational database manage-

ment system from Sybase

which was judged to give the

fastest response time (the tar-

get one-second response to

BAT spent six months estab-

lishing the business case for

making the investment. There

were no reference sites which

could be visited and BAT was

aware that it was going out on

a limb with unproven technol-

ogy. It therefore put a lot of

effort into assessing the feasi-

bility of the scheme as well as

ensuring that the users sup-

The cost of the Holos soft-

utive information system (EIS),

or decision support system (DSS), providing information

ported it.

users is still elusive.)

"We needed to be able to

Some of them were not then

according to Mr Atmore.

Benefits of foresight

sight system.

Atmore.

take the project."

own experience included work bid, but they bid within timein the region with a scale and for a fixed price with a guarantee for zero payment if they didn't meet the

deadline. Other companies

were quoting a year, for much

more basic reporting than we

By Claire Gooding

needed " Horizon's "secret weapon' was a tool called Safena Programming Techniques, which uses Artificial Intelligence (AI) methods. Safena stands for 'structured Al flexible extendable neural advanced' programming, and has been used in medical, accounting retail, insurance and banking sectors. According to Gian Pavlo Benedetto Serra, Horizon's director, the company has been investigating Al

Mr Shafique says: "For us, the benefit is the improved management of the data, and we now know that whenever we request certain information, in whatever order, we know we'll get it, with 99 per cent accuracy, and in the

since its earliest commercial

days in the early 1980s, and

Horizon has always built AI

into its turnkey systems.

Even the fixed-price contract worked - "they just got on with it, and we heard nothing until just before Christmas, when I called up the Oman Insurance company for a progress report. Mr Khan of Oman Insurance said they were up-and-running before schedule, and he was very happy with the way it was working."

Remote working poses no problems because Horizon also has telecom experts. According to Mr Shafique, both and his Omani client now have a custom-built application, with data entry tailor-made - "anyone can process and get the information they require, whether at clerk or managing director level. There is a flow of infor mation between the users, set up to reflect the client's specific practices.

"That's the power of it. because it can be adapted to any company, and it gives them a forward growth path. There is a flow of information between different 'processees' and individuals. This makes it a management tool, with audit trails and back-tracking - that's very important in our business where we have to trace back a had investment

Employers' Reassurance now plans to implement a global data network, adapting the application to each client's needs.

on the company's operations

in the UK, US, Taiwan, Hong

Kong, Singapore, Thailand, Saudi Arabia, Dubai and Mar-

Sales and stock information

will be used to calculate future

sales forecasts and production

requirements so that stock is

maintained at the right level,

with a direct electronic link to

the manufacturing system

called Business Planning and

Control System (BPCS) sup-

plied by Systems Software

Around 120 territory managers

duction planners and customer

services staff will use the sys-

They will access it across a

network managed by the UK

company Scitor International

Telecommunications Services.

of different regional systems,

some run on spreadsheets, oth-

ers paper-based. There has

been no company-wide supply

chain management system

Holistic Systems is a private-

ly-owned company with its

head office in London and

other offices around the world.

It is a leader in client/server

ware's EIS products, as well as

by other fast-growing vendors

The Control of the Co

such as Planning Sciences.

until now.

Leader

Foresight replaces a number

Associates (SSA).

II Housing association appplication

Slicing and dicing the data

A new reporting tool can manage arrears and match tenants and accommodation

nformation about vacant properties and unpaid rent is critical to the business of Northern Counties Housing Association. With more than 18,000 properties on its books, Northern Counties is one of the largest housing associations in the UK, writes Claire Gooding. It chose IQ/Vision software

after an assessment of the information delivery systems available. Now, 57 of its 300 employees use IQ as an everyday way of creating their own

tions, Northern Counties builds or renovates properties and then rents them out for domestic occupation. It is unusual for housing associations to have such a large stock - few associations manage more than 10,000 proper-

tions typically had 80 to 90 per cent grants, and they still work closely in partnership with local authorities in providing homes. Local authorities have the right to nominate who will occupy 50 per cent of the prop-

Northern Counties has to manage its resources very carefully. Only 45 per cent of its grant comes from the government-funded Housing Corporation. In addition, it

Burns, Northern Counties' director of corporate services. "We need all some of information to help us manage our investment. As part of our

Until 1988, housing associa-

culture is moving towards peo-Microsoft Office."

of banks and building societies, including the Bank of Scotland, NatWest and Abbey National.

Northern Counties' income also includes a £50m credit-enhanced bond in January 1995, the first of its kind in this mar-

"We are under a lot of pressure to manage our finances effectively," emphasises Lisa

reports.

Like other housing associa-

Lisa Burns, director of corporate services: 'We have to manage our strategy, everyone will have a PC on their desk. The company

ple doing their own secretarial and administrative work via Ms Burns has overseen the implementation of the new

taken since 1992. Oracle and to check the stage reached became the standard in-house database in that year, running on a Data General Avion, Software includes the Oracle Financial and HR Software applications, as well as the

Housing Management pack-Having created an "IT culture" of independence and flexibility, Northern Counties recognised that Oracle's do-it-yourself reporting tools demanded a high level of expertise from its staff, who

> curve. Qualities high on the shopping list for an enterprise-wide reporting tool were user-friendliness, a good screen interface. and the ability to keep building ever more complex queries beyond those first invitingly

were still on an IT learning

simple reports. Northern Counties was looking specifically at EIS tools such as Comshare and others, but was impressed by the IQ's demonstration of its recently acquired Vision product, which showed the right mix of tailoring and ad hoc facilities.

Typically, Northern Counties managers need to see the arrears due on a daily basis, and be able to "slice and dice" the information so that it can be assessed on various factors such as the percentage of arrears against rent debit, the proportion due in each geographical area, and the local management patch. The director of housing man-

agement services is one of the most enthusiastic users of the system. He uses a tailor-made

in the process of recovery.

In serious cases this might mean a notice to seek possession. Like any landlord, housing associations can evict persistent defaulters. "I can sit and run off the top 20 performers in terms of arrears-chasing

- and the bottom 20," he says. By using IQ Vision, users can delve into the information on properties and tenants. Vision refers to "cubes" of information, a simple way of describing the way users can combine data to view and analyse it.

IQ has built what Ms Burns calls a "briefing book", a sort of viewfinder of essentials which are the starting point for the majority of daily tasks. "My own style is to manage by 'traffic lights' and hot spots, looking at the urgent items first, because it's possible to go

from there down to detail on any cell."

Highly visual IQ's tools work with a variety of databases. The IQ Vision software it is using with Northern Counties goes a step further than mere access and reporting. It provides a highly visual, EIS-like presentation of facts, instantly comprehensible on screen or paper, using 3D effects created via Visual Basic.

"It's given us access to the information in our Oracle database at the click of a mouse," concludes Ms Burns. "It is a very powerful tool and we believe it provides us with the competitive advantage we

By Claire Gooding

■ Overseas Development Administration

Multi-dimensional solution

How software helps sort the facts on 10,000 aid projects

The Overseas Development Administration runs Britain's overseas aid programme, spending £2.3bn annually. Some information about its many projects is kept centrally, in the management systems at its London headquarters.

Much more information is kept at the locations of the individual projects themselves. on local PCs, portables, or in systems to which the ODA has no on-line access - or even on

Our users were coming to the IS department wanting the old 'Nirvana' of end-user reporting," explains Mr Brian Hammond, head of the information systems department.

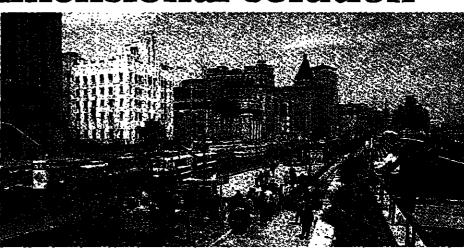
"The concentration had been on getting information into the system rather than making it possible to report on it: users were demanding ease of access, but they also wanted better ways of presenting and inter-preting information."

When Mr Hammond took over the information technology department 10 years ago, he had two rules: "No fanfold paper and no Cobol". He introduced Data General minicomputers, and chose a 4GL approach to building the core

"We've been Cognos custom-ers since 1986, and built our core applications for integrated management in PowerHouse, covering accounting, loan management, overseas payroll, and other applications. "We're currently migrating

Implementation of Foresight began in July last year and has to Hewlett-Packard HP 9000 under HP-UX Unix and one of our aims in upgrading is to been rolled out to users around improve both the flow, and the presentation, of information," the world in stages since then. regional export managers, pro-

In April 1995, the Oracle database became part of the ODA's strategy, along with Cognos' Axiant, a graphical user interface for Cognos tools. But that did not solve all the



One of many aid projects: £2.8m will be used to combat industrial pollution in Shanghai. British experts ned by the ODA will work with Chinese authorities to help ensure a safe water supply for the city

The main issue was multi-dimensional data - "the spreadsheet did not meet the needs of informing us about different countries, different timescales, expenditure versus forecast. and the various economic sectors - health education, agri-

culture," says Mr Hammond. "We needed to keep in line with the ODA's policy objectives, issues like Good Governance and Children by Choice, which meant that we had to be able to score each of the 10,000 projects against those objectives, and make that information easily accessible."

Cognos presented its new siness intelligence tool, PowerPlay, as a solution. "Our users had to be able to

go from a high level of aggregation to dig right down to detail. "PowerPlay's information

'cubes' offer the ability to do that, and to do it in any numher of dimensions - something to which the users could relate immediately," says Mr Hammond.

Using the Cognos tools PowerPlay (for the cubes) and Impromptu (for end-user reporting), ODA created a pilot project called Pims (Policy Information Markers). This produces graphics and tables on the projects, including forecast and expenditure information. Results are networked to ally, as many as 1,000 people in the 10 overseas offices using e-mail as the glue. "It is impressive that we can

update the cubes and compress them significantly - 40MB database compressed to 1MB to send them overseas sites." The pilot has been achieved for a cost of £50,000. Mr Ham-

mond anticipates that eventu-

the ODA may have a use for the Impromptu tools - "perforit's a PC-based tool".

Nevertheless, the ODA is still looking at other EIS-like tools: "We're surveying the market to ensure that this is the right way ahead," concludes Mr Hammond.

FT Telecoms & Media

FT Telecoms & Media is the leading source of market information for the telecoms and media professional. Publishing management reports and newsletters on many aspects of telecoms, traditional media and new media. FT Telecoms and Media has a publication to meet your business needs.

We are pleased to announce the launch of our Spring 1996 Telecoms and Media Catalogues. To request your free copy, please call:

+44 (0)171 896 2234



FINANCIAL TIMES Telecoms & Media Publishing

Planet Q: When should my business be on the Internet?

A: Yesterday Planet Online Ltd - Connecting business on the Internet

ware made up £250,000 of the EIS, mainly using Unix workbrands involved include State £1.5m project cost, the RS/6000 stations as servers and Win-Express, Benson and Hedges and other hardware around dows personal computers as and John Player Goldleaf, as £150,000 and the rest consisted clients. well as US names such as Its products are used at over of development and installa-Lucky Strike and Kent. Most of 900 sites worldwide and the the UK company's export busition costs. A large amount of bespoke company is growing at 40 per ness is expected to be handled programming - larger than year, with revenue of around by the Foresight system. expected - was carried out by The new system runs on an Holistic Systems faces intenthe Price Waterhouse team to IBM RS/6000 Unix workstation tailor the system to users' local sifying competition and its at Southampton. If it proves requirements and make it as position is likely to be increassuccessful it could also be user friendly as possible. ingly challenged, notably by installed at some of BAT's Oracle's takeover of IRI Soft-Foresight comprises an exec-

16 FT - I T

■ Computer industry trends

The threshold of a significant change

cated high speed digital links.

The growing pervasivness of networking bas encouraged

vendors such as Cisco, which

originally focused on the big

corporate market, to launch

products aimed specifically at small- and medium-sized busi-

According to Dataquest, the

market research firm, the mar-

ket for internetworking prod-

ucts aimed at the mid-tier and

small office/home office market

is estimated to grow from \$5bn

to \$17bn by the end of the

Supporting this, a recent sur-

vey commissioned by US

Robotics, the modem manufac-

of UK-based network managers

rate dial-up remote access and

Wan connectivity as a priority

he rapid growth of local

area networks, cli-ent/server systems and

internetworking has meant

new challenges for IT depart-

ments used to dealing with

centralised mainframe-based

Faster PCs and network

servers and larger multimedia-

rich files already mean that

many corporate networks,

based on traditional technolo-

gies, are close to breaking

point. As a result, there is

increasing interest in

high-speed networking technol-

ogies such as Fast Ethernet

and Asynchronous Transfer

ing high volumes of mixed

Mode (ATM) capable of carry-

systems and applications.

issue for the next 12 months.

nesses and teleworkers.

Powerful networks will increasingly unlock corporate 'knowledge' and move it to people who can use it effectively and creatively

he arrival of the desktop personal computer in the early 1980s changed the corporate computing landscape for ever by shifting computing power from the mainframe and the central IT department to the end user.

Quite soon, however, the limitations of systems based around islands of computing power became apparent ushertion as stand-alone PCs were hooked together to form Local Area Networks (Lans) and then Wide Area Networks (Wans) to share applications, data and peripherals.

In some companies, distributed computer systems and client/server networks have replaced mainframe systems for many applications, including those "mission critical" processes on which organisations depend.

Among the primary beneficiaries of this shift have been hardware vendors such as Compaq Computer, IBM. Digital and other hardware vendors who have developed high-powered machines for the \$11bn-a-year PC-based server

Meanwhile. Novell's Net-Ware has become the undisputed market leader in networking software with more than 60 per cent of the global network operating system market embracing 40m users. At the same time, it faces competition from rivals including Microsoft Windows NT server, IBM Lan Server and Banyan

Local area networks have been interconnected using devices such as routers, hubs and bridges to form enterprisewide computing systems since the late 1980s.

As a result, the Lan internetworking market has become a key focus for network hardware suppliers such as Cisco ~ the worldwide internetworking data, voice, graphics and video.

product market leader - 3Com, and Bay Networks. Companies are using a wide variety of methods to connect remote sites and "teleworkers" operating from home. These facilities range from dial-up modem connections over ordinary analogue telephone lines to integrated services digital network Computing (ISDN) connections and dedi-

> Route to leaner. smarter operations

Other issues facing IT departments include network managing the network and network security - a key issue, particularly with the growth of connections to the Internet. Many now argue that the

growth of Internet commerce in particular is ushering in another profound change as artificial boundaries between internal corporate networks and the wider external world turer, revealed that 80 per cent crumble.

"The distinctions between Inter and Intra-networking are blurring," says Mr Nigel Oakley of 3Com. This new computing model has been dubbed "network-centric computing" by some industry participants. including Mr Louis Gerstner, IBM's chairman.

He believes its advent rennesents an important opportunity for IBM because the implied requirements for complex network management, systems management, heavy transaction processing, massive databases, powerful scaleable servers and systems integration play to the US computer group's strengths.

We are excited about network-centric computing because if you look at it from the customer viewpoint, they are not really interested in buying it piece by piece,



IBM network-centric computing in Europe. "We think we have some leverage here."

Similarly, Novell argues: The value of information technology is rapidly shifting from the power of host and personal computers, to the ability of these systems to connect into the vast resources of the net-

"Businesses are using the network to run leaner and smarter, deploying information resources more efficiently and communicating more effectively both within the organisation and externally with customers, partners and In his keynote address to the

Comdex show in Las Vegas in November, Mr Gerstner said the industry was at "the threshold of the next major phase of computing", driven by high-speed, high-bandwidth

The IBM chairman argued that, despite its advantages, "the promise of distributed computing has not been fully delivered. System incompatibilities

mean it has been harder to connect individual devices while client/server computing has also been far more expensive than anyone imagined, "It is expensive because of

messen, general manager for the complexities and also because a lot of customers especially large organisations

are waking up to the fact that they have put the equivalent of a 1985 mainframe on the ks of every one of their clerical workers - with all the maintenance, backup and service costs now multiplied by thousands, and in some cases tens of thousands," he said.

'We have come to understand that client/server computing is, in fact, not a full-blown phase of computing. It is really the leading edge of what will be the next phase: network-centric computing."

r Gerstner argued that, until recently, that, unin .cocan communications technology had been lagging developments in other fields. "PCs and servers have become enormously powerful, but they communicate through the equivalent of soda straws," he

"However, that is now changing. Very powerful technologies, including ATM, will be to the next phase of computing what the microprocessor was to the current phase."

More controversialy, Mr Gerstner argues that once the communications link between will transform every business, the PC and the network is organisation and institution in cheap enough, fast enough and

has virtually unlimited bandwidth, "why not migrate a lot of the functions that currently reside inside the PC to the network - the applications, the data, the storage, and even some of the processing.

However, he concedes that, "the network-centric world will not replace the PC world entirely any more than the PC world replaced the mainframe world entirely."

At the moment, IBM argues, corporate 'knowledge' is spread across incompatible computer systems; it is distributed across personal computers in various departments, but powerful networks can unlock this knowledge and move it to people who can use it effectively. This drives shorter cycle times and allows teams of people to become more productive and creative.

"As companies use networks to 'push out' to their customers directly, we will see dramatic changes in the nature of competition.

"Companies that stand between a supplier and a customer will be on dangerous ground," warned Mr Gerstner. . The implications of networkcentric computing, "go on and

on," said the IBM chairman. "It

organisations is a great challenge and no-one can say they have got all the solutions, says Jolanta Pilecka, software products marketing manager at Hewiett-Packard.

As technology is rapidly Continued on facing page

Network management

A moving target raises problems

Few systems managers can meet all of today's challenges, says George Black

s standalone computers give way to networks, Lhow to manage those networks effectively has top priorities.

The problem is how to provide a good service to a fast-growing number of users without incurring fast-growing costs. As yet only some of the necessary answers are avail-

Solutions are required at several levels. At the most basic, network managers need to monitor events and keep inventories of all their technology to ensure that usage is properly authorised and paid for. They need to form policies for upgrading hardware and distributing new software. They need to know how well the various components of their networks are performing and when they are likely to need attention.

All this is extremely hard to achieve when people are constantly adding new devices and applications to the network without the knowledge of the network manager.

Surprisingly few network managers have a firm grip on these situations. Also, there are much more elusive objectives on the increasingly prevalent multi-vendor networks than there were on isolated mainframes, minicomputers or personal computers.

A key issue is being able to manage machines and software spanning several different operating systems, including new ones which may became suddenly popular, such as Microsoft's Windows

'Managing distributed

evolving, network manage ment is a moving target - "the number one requirement is that networks must be built for change," observes Mr Pim ager for Sun Microsystems. The necessary software tools are becoming more powerful and more widely used, but there is still a long way to go.

Network managers need automated solutions to their problems because they cannot afford to hire more people to do this work. A recent survey across Europe by the UK market research company, Spikes Cavell, shows that, despite rating network management as a top priority of the computer department, three-quarters of companies employ fewer than 10 people to do it. Software

Confusion over standards is hindering progress

that will take some of the strain is therefore high on their shopping lists.

Progress in network manigement technology has fallen behind the timetable which analysts such as Gartner Group were forecasting a couple of years ago. Some of the key products have not

matured as fast as was hoped. Hewlett-Packard with its OpenView and Sun Microsystems with its Solstice SunNet Manager, dominate the network management tools market. Other important products in the field include IBM's SystemView, also sold by Digital with various modifications in its Polycentre NetView range, and Microsoft's Systems Man-

agement Server (SMS). Hewlett-Packard has now launched the first release of a new client/server version of OpenView called Network Node Manager 4.0 (formerly code-named Tornado). A second release of the product is scheduled for March or April.

•



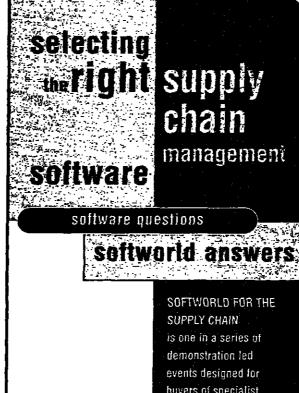
Did she say connector instead of phone? Well, if she's from AMP it's understandable, because we've asked our people to think of anything that provides connectivity, even between people, as connectors. � Usually thought of as pieces of plastic and metal sitting on circuit boards or ends of cables, connectors are being redefined. We're broadening their definition to include the circuit boards and cables, seeing connectors as entire signal paths - from

where they're generated, to where they're received. • Redefining connectors has led us to add certain technologies to our company, like circuit boards, cable assemblies, sensors, optoelectronics, and wireless components. And we bring these technologies together to create proven connectivity subsystems that our customers can drop into their designs - giving them a better way to solve problems brought on by faster chips, shrinking form factors, and shorter development times. * So while we don't expect everyone to think of phones as connectors, our customers benefit because our people do.

IP Incorporated, Harnsburg. PA 17105-3608, Contact your regional center: USA 1-800-522-6752. hada 905-470-4425. England 44-1753-676800. Singapore 65-482-0311. Japan 81-44-813-6502.



AMP



buyers of specialist application software.

- FREE PRODUCT DEMONSTRATIONS
- FREE EXHIBITION
- FREE 1996 SOFTWORLD REPORT & DIRECTORY



20-21 March 1996 **NEC, Birmingham**

in association with

Coopers &Lybrand

0181 541 4865 0181 974 5188 **--- 0181 546 8882**

European Information Technology Observatory 1996

Get a copy of the EITO's new edition!

4th edition of the unique and indispensable yearbook. 400 pages of up-to-date and valid information on the whole European Information and Communications Technology (ICT) market.

This year's EITO contains

- The latest European-wide statistics and market analyses plus 1996 special studies:
- Towards the Information Society: New Network Services and Applications ■ The ICT Market in Europe's Banking and
- Financial Services ■ The Evolution of ICT Distribution Channels

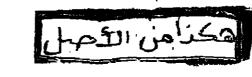
EITO is published and sponsored by EUROBIT, ECTEL and the European IT trade fairs CeBiT, SIMO, SMAU, Association SICOB, KDL, SY-STEMS, and Deutsche Telekom. It is supported by the European Commission and the OECD.

EITO 1996 will be available in March for the price of ECU 46 (plus VAT and mailing).

For orders or further information, please contact: EITO c/o EUROBIT

Lyoner Straße 18, D-60528 Frankfurt, fax: + +49/69/6603-1510. phone: + +49/69/6603-1518, email: c.peter@fvit-eurobit.de Internet: http://www.fvit-eurobit.de/eito





Directions - network-centric computing

The case for Network Computers

By Louise Kehoe in San Francisco, California

Strong appeal to new users

Lower-priced devices, as easy to buy and set up as a telephone at home, could bring the IT 'have-nots' on-line, argues Oracle, the software company

new generation of low-cost 'Network Comput-Lars' designed to provide access to the internet and online information services is expected to be launched this year by several computer and consumer electronics manufac-

lief executiv

re level House what had been as the bard as t

: more of a con-

Section of the Party of the Par

rechnology

C blace may

a executive only

ं दि भा 1666 **46**4

TOUR ELEMENTS

on ellon to take

Torla and our o

Car that the page.

11. I like cine per

..... imså que i

c project for the page

The options and

: ". "because #6

is spin off done i:

e first time in the fe

Company that was

Cocowed eithe by

mater of Ross me

in was truth for

the company of

pendent, anh og g

Visit difference Name

tith that the many

mant box within

ं अधिकार के विकास

THE STREET NO.

SALE OF PRESE

The Till and OF RE

to the mag

tistory that are the

and on the

By John Karani

しょう ひまだ 安さ

ನ್ನ ಚಿತ್ರ≎ ಕೊಡ್ಡ

カタイトの名 お節 ち

in the label of

11 - Jay 1521 F12

51 9151 A 023

3 (E. 32 C)

raine in the

್ಯಾಗಿ ಕಾರ್ಡ್

 $+ \pi_{\mathcal{F}}(\mathcal{A}) = \mathcal{B}^{\mu}_{-1}$

15-51-52

7-122st 201

تتة نطأ:

المتكان فقا ١٢٠٠ ما ووز

10 10 the 105 PM

1 (12 m) (12 m) (12 m) (12 m) (12 m) (13 m) (12 m) (12 m) (14 m) (12 m) (12 m)

The state of the s

1 Trans

4.23

201679 ide

TO A STATE OF THE STATE OF THE

(axpilles

the state to be

is of property

110 miles (10 miles) (

and determined the services an

Lie Will be Bar

is will be be a few of the defendance of the def

1. 电线压缩器

点 化压 远 禪亭

in eetime in ge

These machines, proponents claim, will significantly lower the cost of getting on to the information highway, currently restricted to those who can afford to purchase a personal computer costing \$2,000

Larry Ellison, chief executive of Oracle, the leading database software company, has promoted the concept of Network Computers. He maintains that a bare-bones computer is all that is really needed for Internet access and that it should cost only about \$500.

The advent of the Network Computer represents "the most significant paradigm shift since the launch of the personal computer," says Oracle. In contrast to today's personal computers, which store programs and data on built-in disk drives. Network Computers will download all the software users need from computer "servers" via a network. Similarly, data created on a Network Computer will be stored

remotely. Software and hardware standards will shift away from desktop computers and their operating system software to network servers. This opens the possibility of several different types of Network Comput-

Network Computers will be very low cost devices with easy-to-use graphical interfaces. Oracle says. The essential elements of a Network Computer will be a high performance microprocessor, a few megabytes of memory, a network interface, and interfaces for input and display of infor-

that can send and receive electronic mail and selected information such as stock quotes. Desktop Network Computers will be designed primarily for browsing the internet. A new generation of cable television set-top boxes will also enable a broad range of information ser-

Oracle says it has no plans to manufacture or distribute Net-

ulacturers to bring new products to market over the next few months.

Oracle stands to make significant gains, however, if Net-work Computers take off, expanding the potential market for on-line information ser-

The software company is developing "universal database" management software



cutive of Oracle, says the lower-cost 'network computer' (NCI represents 'the most significant paradism shift since the launch of the personal computer'. But critics do not believe that a \$500 NC will provide enough computer power to satisfy consumers' needs

work Computers itself. The company is, nonetheless, playing a central role in bringing this new generation of products to market.

Last month, Oracle contracted with Acorn Computer, a British computer technology group, to develop "reference designs" for a range of Network Computer products. Among the many different These blueprints are expected

that could feed data and programs to Network Computers. Oracle predicts that Network Computers will appeal to corporate computer buyers, as a lower cost alternative to personal computers, as well as to consumers and schools.

Initially, Oracle expects Network Computers to appeal to business users as a low-cost

rate 'intranets', based on internet software standards," Oracle says. "The NC will peacefully co-exist on the same networks with conventional

personal computers. In schools, NCs will provide "an economically viable solution to the dream of placing a computer on every student's

"Imagine the educational system if every student had an NC, supported by a vast server network ... students and teachers having access to up-to-date information from news servers, the World Wide Web, other schools ... and students having on-line access to other students. The possibilities are extraordinary and most exciting."

Network Computers could also expand greatly home access to on-line services. Today, about a third of US homes are equipped with a personal computer.

The Network Computer could bring the information technology "have-nots" on-line, Oracle argues. "A device as easy to buy and set up as a telephone that provides simple access to a multitude of services offers an extremely attractive option," Oracle says. Oracle is working with several companies to create and support the standards that will form the foundation of Network Computer networks, the software company says.

nother key player is Sun Microsystems, the lead-**I** ling workstation comouter manufacturer, which has developed a software development language called Java which enables the creation of application programs that can he accessed via the internet. Instead of purchasing application programs, as PC users do today, Network Computer users will be able to download the latest version of a Java

types of Network Computers to be used by several computer ers - "large numbers of NCs application from a remote will be two-way pocket pagers and consumer electronics man- will be linked to private corposerver, via the Internet, as needed. However, critics of the Network Computer concept, including executives at several leading personal computer software and hardware companies, do not believe that it will be possible to provide enough computing power to satisfy consumer needs for \$500.

Oracle points out, however, that video game machines such as the Sony Playstation, which incorporates a CD-Rom drive - sell for less than \$500. Similarly, dedicated Network sive than general purpose per sonal computers, the company The costs of using a Network

Computer may, however, turn out to be significantly higher than for a personal computer. Users, for example, may have to pay for the use of application programs downloaded from Internet servers.

Use of such programs may also require constant access to a network, so users could incur higher Internet access charges, measured by the minute and might also run up big telephone bills.

Moreover, Network Computer users will be dependent upon remote servers for storing their data. This raises questions about the security and privacy.

Will individuals feel comfortable storing personal files on a distant computer over which they have no control?

Whether the Network Computer can become a real challenge to the personal computer is yet to be seen. However, the lower price of Network Computers seems certain to appeal to new users. Oracle is expected to demon-

strate a prototype version of the first Network Computer this month and has said that the machines will become widely available later this

from Noorda in mid-1994. Fran-

kenberg gradually divested

Novell of the many businesses

that Noorda acquired, includ-

ing Unix and putting up Word-

Instead of placing itself

directly in the competitive

path of Microsoft. Novell has

chosen a more realistic

approach, preferring to coexist

with Windows NT and develop

new products such as Netware

Directory Services which will

be key to winning users within

"NT is a good product and we believe it will be very suc-

cessful for Microsoft," states

Novell CFO Tolonen. "We see a

world in which there are beter-

ogeneous networks with differ-

ent operating systems and dif-

ferent hardware platforms with

Netware providing the 'glue'

Tolonen sees much bigger

competition yet. With the enor-

mous growth of the internet

and large organisations developing their own private inter-

net-like networks, Novell hopes

enable such large networks to

greatly expand the usefulness

Novell has also set its sights

on future networking applica-

tions in the bome and within

products, such as automobiles.

smaller version of Netware

that can be used to control or

monitor a wide range of

devices. This is a significant element in Frankenberg's goal

of one billion Netware nodes

A key part of this goal is Novell's Netware Embedded

Systems Technology (NEST).

This enables data to be sent

normally block data signals.

by the year 2000.

The goal is to develop special

siness opportunities in areas

large organisations.

that binds them."

By Tom Foremski in Forestville, California

Perfect for sale.



clogy of data mining – elthough still in its intency – holds great p

E Data mining in retailing

By Martin Banks

Valuable discoveries mined from raw data

The amount of data on retailing operations is doubling each year

he till at the checkout of the local supermarket, or any other retail establishment, is now much more than a collector of money.

Today, it is a collector of vast amounts of information. Yet to date most of that information is wasted, and its value is not exploited by the retailers. The reason is relatively simple: there is (or more specifically, has been) more of it than most computer systems have been able to manage or

Yet there is real value in such data, and it is one of the prime targets for the latest developments in database technology. This is data mining, the ability to tease out from this vast wealth of raw data information that is not known. could hardly be guessed at, yet is worth its weight in gold to

the owners of that data. According to Evangelos Simoudis, IBM's Director of Data Mining Solutions, based at the company's Santa Teresa facility in California, USA, data mining is the process of cantly. "A lot of the new ysis: "I see the real target of This should mean that the when Bob Frankenberg took extracting previously installs are Windows NT and NT being the OS/400 market number of Netware users will over the leadership of Novell unknown, yet comprehensible and actionable information from large databases, and using this information to make

crucial business decisions. "This," he said, "is a more pure version of data discovery. It is the discovery of data that is unknown and not based verifying an hypothesis that has already been created by some-

To date, most organisations have set about examining and evaluating the contents of their databases on the basis of an hypothesis: often of the how many people buy tomato sauce and baked beans? variety. Data mining, on the other hand, works on the basis of using the technology - in this case using what IBM calls 'discovery algorithms' in specially written software - to discover for itself any associations

In this way, the most unexpected associations can be where there is no Microsoft found. Once found, they can be exploited to great effect. Not surprisingly, companies amongst the early adopters of data mining technology see it as a significant competitive advantage, and are therefore loath to talk in great detail, that products such as NDS will but the oft-quoted example of what data mining can achieve is the case of a large US supermarket chain which discovered a strong association for many customers between a brand of bables' napples (diapers) and a

between the data.

brand of beer computer chips that contain a Most customers who bought the nappies also bought the beer. The best hypothesisers in the world would find it difficult to propose this combina tion, but data mining showed it existed, and the retail outlet was able to exploit it by moving the products closer together on the shelves.

nother example quoted over power lines including by Evan Williams, IBM's through transformers, which Data Mining Solutions Specialist in the UK, involves a retailer with a bulky and only marginally profitable product line. Data mining showed that the company's intended plan of dropping the product might be wrong, for the customers who bought it were also consistently the outlet's biggest spenders on other products. "We don't see these as niche Instead of being dropped, this product has become the

> let's marketing. According to Simoudis, there are a number of reasons why companies need data mining. The first is the need to analyse more data than is currently

> centrepiece of much of the out-

Indeed, according to Williams, though Electronic Point

Of Sale (EPOS) terminals collect a vast amount of data about products and customer buying patterns, the majority is still effectively thrown away by most companies. As Simoudis puts it, "companies only analyse a small percentage of the data available, yet the amount of data available for

analysis is doubling every The second reason for data mining is the need to identify niche markets very quickly. In the fast-changing world of retail marketing in particular, the need to be able to identify a sales trend and react to it quickly is now imperative for some of these opportunities, while short-lived, can be very profitable while they last

On the other side of the coin. as Williams points out, there is the classic '80:20 rule' of business - "this is where 20 per cent of a company's customers provide 80 per cent of the busi-

ness." he observed. "Identifying these 20% and Financial services will be

the next big target market for data mining what makes them tick, for example what products they

tend to buy during a single trip, can be very effective in maximising the retailer's investment in stock, staff and shop layout." Even in this last point, as

Simoudis suggests, data mining has a role to play, and IBM is already working on the linking of data mining results with multimedia store design and layout applications.

This is seen by IBM as the natural complement to the 'market basket analysis' possible with data mining, where the patterns of what else is bought if product X is bought? allow store designers to position these associated products topether in the store. With multimedia design

systems, new layouts can be test marketed on focus groups both quickly and inexpen-

Although the obvious first

marketplace for data mining is the retail business, the technology is already starting to be applied elsewhere. Financial services and products is the next big target market, followed by the travel business.

The technology can be successfully applied wherever there are complex and subtle associations between individual products or services that are not easy to spot, but which can have a significant impact on revenues and profitability.

There will also be the need

to analyse truly huge amounts of data. Systems capable of handling up to seven Terabytes of data (about seven million million characters of information) are already being installed in the UK. To be effective, however, data mining solutions must be able to work with all of the data, not just samples taken from it.

"There is a valid concern," Williams suggested, "that data mining can lead to an homogenisation of retail outlets and products, where the needs of idiosyncratic customers are not considered.

"We believe this can be overcome with the powerful parallel processing computer systems now coming available. analyse Terabytes of data, so that all the data available can be analysed for possible associations, rather than just a sample of it. In this way, the minority groups of customers, and the associations that make servicing their needs profitable, can be identified."

Data mining is still very much in its infancy as an applied technology, but its potential benefits are already starting to show themselves. There are still lessons to be learned in applying, such as whether it should be a central service (where the marketing skills tend to be) or a distributed, regional service so that outlets in the regions can react even more quickly to local market opportunities and

There seems little doubt, however, that its long-term place in defining future sales and marketing strategies for high volume outlets of every type is assured.

Year 2000 Systems Conversions A Timely Solution from IMR

Information Management Resources Ltd specialises in the provision of Year 2000 conversion services.

Companies Ltd. and Information Management Resources Inc., suppliers of offshore IT services since 1988, we combine UK management expertise and business awareness with a proven track record in offshore delivery.

The advantages of using IMR include:

IMR is currently using its IMR 2000° strategy, CC-PAC° full life cycle conversion methodology and Transform 20000 toolset to help leading UK.

Major Cost Savings With the majority of the conversion work undertaken offshore we can offer tomers savings of up to 50 per cent compared with UK based delivery.

overlap project phases and tasks between onshore and offshore working.
When coupled with the high productivity available offshore, the result is a

Fell Management Control The work may be executed thousands of miles away but our British on-site management employ rigorous quality methods to ensure total project

To find out how IMR can help your organisation please contact: Melvyn Burgoyne

Information Management Resources Ltd. Link House, St. Mary's Way, Chesham, Bucks, HP5 1HR.

e-mail: imruk@linkgrp.demon.co.uk



Challenge to Netware's dominance

buyers are considering rival Windows NT in their upgrade plans

Then it comes to local area network operating systems Novell's Netware dominates the market with about a 66 per cent share but this dominance is being challenged as the demands of client/server and enterprise computing change, and as new opportunities arise beyond the

traditional office environment. Novell's main competitors are Microsoft's Windows NT. IBM's LAN Server and Banyan Systems' Vines network operating systems. IBM's LAN Server is considered a good product but is still lacking many of the features that could significantly challenge Netware. While Banyan's Vines has not kept up with the changing marketplace and is

losing market share. Windows NT is the most significant challenger to Netware with many similar features plus its strength as an application server. Add the fact of Microsoft's aggressive promotion and pricing of Windows NT and Netware's market dommance could diminish signifithe product is getting better with improved file and print services," says Jesse Berst, editor of Windows Watcher newsletter. Netware is still a better product in what it does, points out Berst, but companies installing NT get the file and print services thrown in 'free'

US market research firm Dataquest estimates that Windows NT will have 1.9m licences in 1995, compared with about 1.3m Netware licenses. What is not clear, however, is what percentage of new NT users are replacing Netware.

Windows NT is also bound to benefit from another trend. Intel's new Pentium Pro microprocessor is designed for 32-bit software, of which Windows 95 has very little.

Intel, and the Intel camp of leading PC manufacturers and software developers, now have greater incentives to move customers to 32-bit operating systems in order to justify system upgrades and to unlock the performance of the Pentium Pro. This is another strong reason for corporate buyers to consider Windows NT in their upgrade plans. David Cappuccio analyst at

US market research firm Gart-

which shows greater business opportunities for Microsoft as companies move away from the IBM AS/400 to PC architec-

Stan Schatt, at market research firm Computer Intelligence infocorp, does not see a dramatic move to NT within Netware's installed base – "we conduct more than 30,000 user

'Even household appliances could one day be controlled

phone calls each month and there is nothing there that shows a big trend toward NT. Netware has about 66 percent of the market and it will lose

grow with the market even if its total market share declines. "Netware is a very good product and as our analysis of the costs of running networks shows, Netware does pretty well, mainly because Novell has ensured that support personnel are well trained," Cubbage says.

Novell has changed its bustness strategy regarding competing with Windows NT. Under the leadership of its former chairman and CEO Ray Noorda, the strategy was to take the Windows NT challenge head on. Noorda was pre-pared to spend about \$1bn to challenge Microsoft in virtually every area of the software

called for Netware to become

Noorda's Super NOS strategy

with a strong suite of business productivity applications ell purchased WordPerfect for its word processor application. and Borland International's Quattro Pro financial spreadsheet and Paradox database to create a suite of business applications that would compete with Microsoft's Office suite of programs. It also purchased the Unix operating system. Super NOS was abandoned

with Netware'

market share slowly, just as any vendor with such a dominant share of the market can expect. But prospects for significant growth are doubtful". Paul Cubbage, network industry analyst at Dataquest believes that Windows NT will help to grow the entire net-

more of an application server lightly tied into Netware. Nov-

work operating system market.

ner Group has a different anal-Dilemma for network managers

Continued from previous page:

Sun's SunNet Manager, its core product for network per formance management, has now been complemented by others in the Solstice range, as well as products from business partners, for various management functions.

Sun's Pim Dale hopes that its new Java programming language, derived from C++, which has attracted a lot of interest among Internet users, will also be widely used on corporate networks.

"In a couple of years there will be many Java applications which will be much better suited to networks than traditional applications and will case the network manager's task," he forecasts. IBM's SystemView series.

formedy code-named Karat, includes the NetView network management products; they at present manage several IBM platforms and will be extended to make those of competitors. Lewis Troke, an IBM systems management consultant, says the development of

intelligent agent software will in the next year or so greatly simplify the control of multivendor networks.

Microsoft's SMS, launched in 1994, is part of Microsoft's BackOffice family of applications. Running on personal computers, it handles inventory, monitors the status of systems, distributes software and covers licensing. A new version which assists migration to Windows 95 was enounced in August.

All of these products are still developing and it is unclear how well they will scale up to be able to handle enterprise-wide network management. At present, they are mostly deployed in a more limited environment, awaiting the new software tools which it is hoped will enable them to provide a comprehensive solution. The Network Management

Forum tries to bring together

users, manufacturers and stan-

dards bodies through its Omni-

point programme. Mr Bruce

Murrill, its technical director.

says that system management

the service to users. This needs a coherent method of sharing data between systems. Network management tools cannot do their job properly until this system management data is available".

than network management -

ervice level agreements between users and net-work operators depend on a mass of information about system performance and availability and problem handling. Different systems report on these functions in different ways, so that very often no overview of the network can be obtained.

The NMF is seeking ways of automating more of the functions of service management in order to improve the quality of network service to users. Murrill complains that a large part of the industry, including many network device manufacturers, does

not participate in the process of agreeing standards. Another brake on progress

and standards promoters "the focus now is on managing. affecting network management which are not well co-ordinated.

spring.

for being "uninterested" in industry standards, is however

to substantial investments while uncertainty over future says that system management is the number of standards standards remains.

Among the most important of these standards is the Internet's Simple Network Management Protocol (SNMP), which awaits finalisation of a second version, expected in the

Other relevant sets of standards include the International Standards Institution's Open Systems Interconnection (OSI), the Desktop Management Task Force's Desktop Management Interface (DMI). and the Object Management Group's Common Object Request Broker, (Corba). Microsoft, widely criticised

a powerful standard-setter in its own right and sometimes able to sway user opinion for or against such standards. Both tools developers and users are naturally hesitant about committing themselves

The development opens up healthy niche markets such as remote monitoring of electrical power usage within homes. And applications, such as Nestenabled cars, which would be able to diagnose problems and schedule maintenance automatically.

markets," says Glenn Ricart, senior vice-president of corporate research and development at Novell. "We see this all as networking which is our number one business. With our technology that can use power lines to transmit data, it opens up a world of possibilities in the home so that even household appliances can be controlled through Netware."

lointly owned by British software services specialists. The Link Group of

With over 500 software engineers situated in the UK, USA and india, we can establish large mutri-skilled teams capable of bringing concentrated resource to every phase of a Year 2000 conversion project.

Track Record and Experience

We use the time zone differences between the UK, USA and India to

'round the clock' service to achieve delivery in dramatically reduced time

Td: 91494 791791 Fax: 01494 791059

Network security and data protection

By Tom Foremski in Forestville, California

The never-ending journey

While computer networks continue to transform the way companies work, "the issue of network security is not a one-time event - it is a journey for ever," says a systems expert

their use of networks internally and establish links to the Internet and other external networks, the problems of securing their systems and data rise enormously and there is no easy solution.

Each time a company adds a local area network, or a gateway to the internet, or adopts the popular distributed client/ server model of computing, it increases the security risk because there are more potential areas of access to sensitive information. These risks come not only from outside the company in the form of hackers, but also from within the organisation, from curious or disgruntled employees.

One of the biggest security problems in this area, has been the fact that few business managers have recognised the security risks or taken them seriously. Yet the number of security problems has increased dramatically over the past few years, helping to prod users and the computer industry to develop and deploy more robust security mea-

1,290 information system managers, conducted by Ernst & Young late last year, show that the security message is getting through but there is still a lot of education on the issues to be done. Almost half of those taking part in the survey said that their company had experienced security problems that resulted in a financial loss. For about 20 companies, the financial loss was at least \$1m.

About 40 per cent of the survey respondents said that senior management awareness of the security problems was a key obstacle to better security procedures. "Information technology and

the use of networks is causing a renaissance in the way companies conduct business but this means that business people have to realise that protectmore important than protecting physical assets," says Fred Jones director of information security services at systems integrator Electronic Data

Kathleen Kincaid, director of IT Security Programs at IBM.

The results of a survey of says that the media has belped to raise awareness of security problems - "there has been a lot written about security risks and the Internet for example, which has led to people calling us and asking if they might have a security problem."

But many companies start

looking for security solutions only if they have had a prob-lem themselves or have heard of a company in the same business that has problems. Mr Jones, at EDS, points out that it is difficult to add-on security to an existing information system. Security must be considered as an integral part of the re-engineering process to be the most effective.

Even in organisations where securing networks is a priority, there are many issues that have to be addressed and the solution can be complicated with many levels of options available - "there is the security of the physical transmission, security at the logical layer, and perhaps an application layer. What I've found is that at each layer people want to secure that layer. And

within each layer, there are

mitting information securely, explains Ms Kincaid.

Encryption technologies and public key/private key mechanisms provide good security but there are many different ways to apply them to different parts of the information system, further complicating the

he good and bad news is that awareness of security on actworks is much higher and most computer companies have added security features to their software and hardware products. The bad news is that it is difficult to make all the different parts work well together.

"There is a lot of overlap and holes in the system security when using different products. It can be a real hodge podge trying to make it all work well together," says Jones. "What is needed is the establishment of key security standards and these have to be done on a

Jones adds that while there is work being done by industry consortia on various security

Firewalls are a key method of securing networks and there are many new products on the market. Firewalls are hardware and software systems that monitor network traffic

and will block network data from coming in or out, based on various criteria, such as sender ID or type of data. But firewalls are complex to set up - for small companies with little in-house expertise,

outsourcing such security measures is often the best solution. The ideal solution is for security to become a "transparent' application - "security should not hinder the user," points out Mr Jones. "But it is vitally important that the user must be made aware of why the security is there. Staff education is a very important part of any company's security proce-

Some products, such as the groupware software Notes. from Lotus Development, offer users a simple option to encrypt data by checking a box. Some security systems require users to memorise a list of passwords for different

applications. Passwords work well but they can also easily become a key weakness in a security system. Often, users do not change them regularly. or they use simple and obvious passwords such as their birth date or the name of relatives. Passwords are sometimes even posted near computers.

Encryption technologies be at the heart of many security measures. These use powerful mathematical operations that make it virtually impossible for an eavesdropper to decode an encrypted message on a network IBM's Data Encryption Standard and RSA Data Security's public key encryption technology are good examples of reliable and secure encryption

technologies.
But the US government limits the use of powerful encryption technologies on the basis that it will make it more difficult for law enforcement agencies to monitor criminal activi-

For example, it is illegal to export certain encryption technologies abroad - a key prob-lem for multinational companies which are unable to use the same encryption technology across their entire enter-

The issue of securing networks is also one that is never solved completely. Ms Kincaid makes the point that "security is not a one-time event ~ it is a iourney for ever."



ers on the Hong Kong Stock Exchange: security is becoming vital in the financial world, where 'firewalls' are a key method of securing networks. Firewalls are hardware and software systems that mon network traffic and will block network data from coming in or out, base on various criteria, such as a sender's ID or type of data

■ Global network service

Lotus is first to use BT's new public servers

British Telecom has just set up a giobal public server service in partnership with Hewlett Packard, writes Rod Newing.

British Telecom's global communications network will allow it to provide a wide area network service. Hewlett Packard will provide BT with the servers, together with services and expertise from a "server farm" in Bristol. This will start with between 10 and 20 HP9000 servers, with more being added as demand increases.

Lotus Development Corporation, an IBM subsidiary, was a key participant in establishing the new service which is being launched this month.

This move is part of its strategy to extend the sharing of information between companies and individuals through Lotus Notes Public Network Service. The facility is a special version of Lotus Notes designed to meet the scaleability, reliability and administration requirements of public networks, including billing ser-

Applications

Organisations will be able to support business processes using BT's global network to integrate with suppliers and customers around the world. using applications located on

the public servers. A single connection to the BT servers means that organisations will no longer need to set up a wide area network within their organisation and with their customers and suppliers. This will reduce the cost of setting up applications and infrastructure for user organi-

The number of Lotus Notes users is growing rapidly, doubling in the past six months to 4.5m. They can access the servers by point-to-point connections, such as ISDN, the internet or from cellular telephones. Notes security is available for each method. The applications can also be designed to

be accessed by any internet

browser. Lotus Notes applica-

tions on the server will allow

organisations to communicate with customers using data. images, voice, sound, video and other communications formats. 200

32

For Lotus, the deal follows similar arrangements with AT&T. Compuserve, Deutch Telekom, iBM, Nippon Telegraph and Telephone, NTT Data, SNET, Telstra, Telecom Italia, Telekom Malaysia, Unisource and US West, together accounting for 80 per cent of global data communications

Competition

By using Lotus Notes, each network will be able to communicate with the others. This is part of a Lotus plan to build a world-wide interoperable network of public networks, linked to the Internet. BT is also carrying out a trial for a similar service in Australia.

Carriers face competition from new entrants, cable operators and the Internet, causing iong-distance and internatical communications to become a commodity.

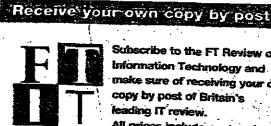
Public networks provide them with new value added services to offer customers in order to maintain their revenue. Organisations are charged rental for their applications on the servers and users are charged for access. Lotus will

participate in this revenue. Lotus has beaten Novell. who has similar aims with its Smart Global Network, but BT admits that the Lotus deal is

the first of many. When Oracle and Sun talk about "downloading applets" from the server to their network appliances. BT will have one of the main potential

sources for software. ☐ The next issue of the FT-IT Review on Wednesday, March 6 will feature converging technologies in IT and communications, together with directions

in network management. ☐ For more information on key themes in future issues, there is a new FT-IT Fax-u-Back service: see Page 2 of this issue for details.



Subscribe to the FT Review of Information Technology and make sure of receiving your own copy by post of Britain's leading IT review. All prices include post and packing:

	UK	Europe	Rest of World
Five issues	28.50	£14	€26
Ten issues	£16	126	250

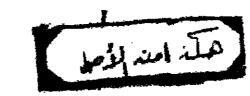
For further details, or to place a credit card order, phone 0345 125244 (UK callers) or +44 171 538 8288 (overseas callers)

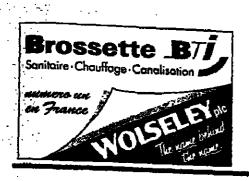
You can also subscribe by cheque or postal order for the above amounts payable to Financial Times Ltd. Please write or send business card with your payment to;

Ms Terri Modle Subscriptions Department Financial Times Number One Southwark Bridge London SE1 SHL

2 The Financial Times Review of Information Technology is published ten times a year: February - July and September December, inclusive. Issues appear with copies of the Financial Times on the first Wednesday of each month. Postel subscriptions are delivered as soon as possible after this date.







FINANCIAL TIMES

COMPANIES & MARKETS

THE FINANCIAL TIMES LIMITED 1996

Wednesday February 7 1996

<u>LEGAL DEFINITIONS</u>

joint venture n. 1 mip inspired by illegal substance (orig. sixties) 2 annual orthopaedic holiday 3 business planned by two or more persons, companies etc. see ROWE & MAW: asap (ph 0171-248 4282)

Rowe & Maw

IN BRIEF

The second second

Die se men od in second

STREET SHEETS SEED THE = "- - 29 E W OLL

200 Proe 11 583

est in

7 Ze

- : Ic : v

100 Nati

....

Repsol placement realises \$1.1bn

The placement of shares in Repsol, Spain's oil, gas and chemicais group, has broken all Spanish records for demand, realising Pta140bn (\$1.1bn). It prepares the way for a rapid follow-up by the government with a global offering of equity in Argentaria, the state-controlled banking group. Page 16

German arm to resume payout to IBM IBM Deutschland will, for the first time in three years, pay its US parent company an advance divi-dend of DM500m (\$347m) amid signs that its finan-cial position in Germany has stabilised. Page 16

Degussa makes slow start with 2% rise Degussa, the German chemicals, precious metals and pharmaceuticals company, made a lacklustre start to its 1995-96 financial year with pre-tax profits up by only 2 per cent to DM96m (\$67m) in the first quarter after rising steeply in 1994-95. Page 16

indonesian bank to float despite low rating Bank Negara Indonesia, the largest of the country's five state-owned banks, plans to float shares this summer, despite a disappointing rating recently from Moody's, the credit agency, Page 17

Alcatel's Mao joins vanguard in China Alcatel Alsthom expects its business in China to account for 10-12 per cent of global sales within a decade. And overseas Chinese businessmen such as Mr Robert Mao, who has just joined the French conglomerate's main telecommunications board, will take an increasing role in international groups aiming to expand there. Page 17

Time Warner and Turner lift cash flow Time Warner, the US media group that is in the process of acquiring Turner Broadcasting, reported cash flow 26 per cent higher in the fourth quarter at \$1.04bn, on revenues up 12 per cent at \$5.1bn. Turner produced a 12 per cent rise in revenues in the quarter, to \$923m, but cash flow rose only 4 per cent to \$142m. Page 18

Restaurant strength pushes PepsiCo up A turnround in PepsiCo's restaurants division helped the US soft drink and fast food group report a 10 per cent increase in net profits to \$565m, or 70 cents a share, in the fourth quarter. Page 18

Medeva quits Germany and sells business Medeva, the acquisitive UK pharmaceuticals company, has withdrawn from Germany and the oncology market with the disposal of Ribosepharm, its cancer drug business, to Klinge Pharma for DM121.6m (\$84m), Page 19

Brazil halts gold trading to quell rumours In an unprecedented move, Brazil's central bank, frustrated that it has not been able to quell persistent rumours that a rogue trader has left it desperately short of gold, has stopped trading the precious metal. Page 21

Companies in this issue

•

AIR		Ulural Loters
Aérospatiale	16	
Air		ICA .
Airbus		LICTSI
Alcatel Aisthom	17	Jaguar
Alenia	5, 16	Johnson Matthey
Allied Domecq	13	Justine
Alistate	18	Klinge Pharma
American Airlines	1	Lockheed Manin
Аоп	19	
Arjo Wiggins Apple	19	
Aviall	18	Marathon Inti
Avon Products	. 17	Medeva
BAT Industries	4	Middlesex Holdings
BAe	5, 16	Multi Bintang
BBV	16	Opel
BSky8	19, 12	
BT		PepsiCo
Balli Trading	19	Paugeot Citroën
Benk Negera Ind'usia	17	
Baxter int'i	18	
Boeing		Quaker Oats
British Airways		RWE
British Gas		Rank Organisation
Brown & Williamson		Reckitt & Colman
Canadian Pacific		Repsol
Cheung Kong		Ribosepham
Clyde Petroleum		Sabena
Cray Research		Sara Lee
Davids .		Scottish Widows
Degussa		Sons of Gwalla
Delta Jakarta	6	Sprint
Dick Corporation	5	Thames water
Folder	13	Tharnes Water Time Warner Turner Broadcasting
Ford	12	Intues Riosocasond
Foster's Brewing		USAir
Gardiner		Viag
Greenwich Air Serv.	78	WM Company

Market Statistics

\$Anguel reports service	24-25	FT-SE Actuaries indices
Benchmark Govt bonds	22,	Foreign exchange
Bond futures and options	22	Gilts prices
Bond prices and yields	22	London share service
Commodities prices	Zt	Managed funds service
Evidends assounced, UK	19	Money markets
BAS currency rates	23	New inti bond issues
Eurobond orices	22	New York share service
	22	Recent Issues, UK
Fixed interest Indices	32	Short-term int rates
FT/S&P-A World Indices		
FT Gold Mines Index	28	US Interest rates
ETACHIA had bend our	22	World Stock Markets

Chief price changes yesterday

	Rises				21版-51前 2 1635	200	•	
	Hoechst	443.7	+	7.5	F801200	B95	•	23
	Kauthof	472			SGS-Thomson	191.5	٠	5.1
	MAN	442.5			Seite	204	+	12
			•	_	Valinerat	278.9		7.1 {
	Falls.	539	_	10				٠ ١
	Degrassa		_	35	TOKYO (Yes)			j
	Linctype	167	-	45	Flises			35
•	Rimierustali Pri	180	-	4.0	Central Glass	555	*	
	MENT YORK (#	7			Full Spinning	520	+	3)
	Mises			_	Michigan Care Come	518	+	21
	Alco Standard	45%		3	M'Distri Plastics	£93	+	72
	Micron Tech	46%	•	24	Morjoaga Milk	582	+	36
	Tisticen	401	٠	21/2	Pelle			- 1
	Palie					655	_	25
	Olec Auto	267	_	314	Migaji Itoo			- 1
	Browbard	2116		3	HONG KONG	-		ì
	PIP Hesimon	257		1%	Historia .		_	- 1
				•••	Douglang Bec	2.47	3	
	LONDON (Pen				-		+	0.275
	Rises	23		5				
	Gardiner		+	14	HK Parloview	2.57	5	- 1
	MAKE Comp		-	22	(K) marma			0.5
	Ortel	148	+	22	Island Dyeling	6.95		0.35
	Tells .	·				0.68		0.16
•	8Siny8		-	22	Manado Hee	2.62		- I
•	Conjects		-	lů .	Cinging Mas	2.02	-	8.15
	W (0 -	153	-	16			.+	6.13
	TOROSTO (CS	4			Rygden Dev	2.22	7	1
	- Mana				-		*	0.2
	Backer Milk B	12	+	1	BANGKOK (Be	iles)		ł
	Mader Exel	15	+	11/2	Rive*			- 1
	Pale Art Show	13	+	133	Carcono Thai	54	ŧ	5.5
	Palle				Intentite ins	82.5	+	75 (
	Basand Pag	193	_	3.4	Militaria so	518	i	46
	Chapter		_	34	Sorro Sal.	252	+	22
	Hillmanhan	59	_	434.	Singer	80	Ŧ	7 }
1	PARIS (PP.)				Theiland from	gü	т	٠ ا
. 1					Welle.			

LAWYERS FOR BUSINESS Fokker moves to damp expectations of bid

By Michael Skapinker in Singapore and Ronald van de Krol in Amsterdam

Fokker, the troubled Dutch aircraft manufacturer, yesterday sought to damp expectations that impending talks with potential partners would lead to a bid for shares and bonds held by inves-

The company, which said it had drawn up a shortlist of five potential partners, said: "So far, none of the candidates has indicated it is considering a bid for Fokker's bourse-listed shares or bonds." It cautioned its workforce that any partnership would probably lead to drastic" cost-cutting, including a lower-

ing of expenditure on personnel. The company's shares fell more than 8 per cent yesterday to close at Fl 4.30. Fokker said it hoped to conclude a

deal with one of the five by the time its bridging finance arrangement with the Dutch government ran out at the end of February. If no company had agreed to buy Fokker by then, parts of the business would be auctioned off sepa-

At the same time, Daimler-Benz Aero-space (Dasa) of Germany, which has a controlling stake in Fokker, said it was looking for a partner to take a majority share of its Dornier regional aircraft

Fokker was plunged into crisis last they had done no more than seek fur senior sales and marketing vice-presi-month when Dasa announced it would ther information about Fokker and BAe dent of Aero International Regional month when Dasa announced it would end its financial support.

Mr Leo Steiju, a Fokker official, said the Dutch group had received expressions of interest from 30 companies and had selected five. Fokker has refused to name the five, but four groups have said they have expressed an interest in talking to the Dutch manufacturer.

They are Samsung of South Korea, Aérospatiale of France, Bombardier of Canada and British Aerospace (BAe). Aviation industry sources say the Tai-wanese government could be the fifth name on the list. However, Bombardier, Aérospatiale and BAe said yesterday

said it had no interest in taking over the Dutch company's manufacturing.

Bombardier, whose subsidiary, Short Brothers of Belfast, makes wings for Fokker, said its representatives were in the Netherlands for talks with the Dutch group. However, Bombardier said it did not know if it was one of the five on Fokker's list. It said: "We could be on a shortlist. We could be on a very long

Aérospatiale said it had only asked Fokker for more information and could not go further until it had received this. Mr Jeff Marsh, a BAe executive who is (Air), the regional aircraft joint venture, said BAe was concerned that a Fokker collapse could depress the price of second-hand aircraft.

Mr Marsh said BAe might be interested in managing Fokker's fleet, although it would not take over any of the company's assets. He said BAe managed its own used aircraft through its Asset Management Organisation.

Fokker said one criteria used to draw up the shortlist was whether a potential buyer was "deemed capable of continuing Fokker's activities, including assembly of aircraft".

Pension row overshadows British Gas split

By Clay Harris, William Lowis and Robert Corzine in London

A radical plan by British Gas to split itself in two was overshadowed yesterday by the size of the retirement package for Mr Cedric Brown, its departing chief execu-

Mr Brown, who will retire early

at the company's annual meeting, planned for April, will receive an annual pension of £247.000 (\$370.580) and, for one year, a consultancy payment of £120,000. He will also keep his 695,748 executive share options. The package led to sharp exchanges in parliament between Mr John Major, prime minister, and Mr Tony Blair, leader of the

opposition Labour party. Asked

by Mr Blair whether the package

could be justified. Mr Major said: will include all other evoluration "That, in the private sector, is a and production, gas transport matter for the shareholders."

British Gas confirmed plans, disclosed in yesterday's Financial Times, to split into two listed companies in 1997. Creation of a

and storage, power generation and businesses outside the UK. Under the split, British Gas Energy will inherit £40bn of "take or pay" purchase contracts,

he break-up	+610VI+10VI+1		200 PC h 21	. 24 4 2 54 6	4.00000	 ^D ag	e 14
ex	4		2 2 2 4 5 6 7		*4 204=41	 ⊃ag	e 12
eature and E							
·				<u> </u>		 	
		_					_

not an outright demerger, had been required under the 1995 Gas

British Gas Energy will take over the UK supply business, which has 19m customers, and the North and South Morecambe gas fields. TransCo International

new trading subsidiary, although many of which are at well above market price. The company said the demerger should help to

> Sea gas producers. Ofgas, the industry regulator, said: "It no doubt eases regulation but it's not the ultimate answer to a regulator's prayer."

resolve its dispute with big North

Mr Brown said: "One of the for the combined company, consequences (of the demerger) is that my job disappears. New management teams will be appointed in the middle of the year and they will want two young chief executives." In the meantime, Mr Richard Giordano, non-executive chairman, will become chief executive as well. British Gas shares closed 2p

lower at 242%p, valuing the company at £10.6bn. In the past year, its shares have underperformed the FT-SE 100 Index by 35 per

One analyst said the demerger did not really add value for shareholders. He said: "If anything, I can see the value decreased. There is a clear signal in the statement that the dividend ain't gonna be what it was

British Gas repeated its intention to maintain the dividend for 1995, but said various factors might affect future payouts. After the split, TransCo initially would be the main source of dividend, with British Gas Energy paying dividends or buying back shares only in "appropriate" cir-

Pirc, the corporate governance consultancy which led a shareholder revolt against Mr Brown's pay last year, criticised his retirement and the demerger plans. It said Mr Brown was the fourth executive to have received a substantially enhanced salary and then left the company.

Schroders, Cazenove and Hoare Govett will advise on the demer-

International drinks group prompts sharp downgrades after profits warning

The benchmark Hang Seng

Cheung Kong, in tandem with affiliate Hutchison Whampoa, has been acquiring sites for development throughout the col-

ries, follows three other large purchases in the past five

The Cheung Kong placement, grine Capital, follows other chip Hong Kong companies.

property development compa-Pacific, the Hong Kong-listed arm of Beijing's main domestic and international investment agency. In December, Henderson Land Development

(\$283m) in samurai bonds.

Allied Domecq irks investors with second warning By Roderick Oram, Four factors had undermined profits: US drinks sales over European drinkers were still

A second profits warning in seven months from Allied Domecq yesterday heightened resentment in the City of London towards the international drinks and retailing group, prompting sharp downgrades and fears of a dividend cut, "Almost every time they speak, the numbers go down," one analyst said as the shares closed 8%p lower at 506p. Interim pre-tax profits would

be about 20 per cent lower than last year's £403m (\$620m), Mr Michael Jackaman, chairman, told the company's annual meet-

resistant to price increases; disposal of food businesses would dilute earnings; and Mexican and Spanish profits would be off by £25m because a change in yearend had brought two loss-making months into the period.

Second-half performance should be better as trading improved, costs were cut and one-off timing factors disappeared, he said. Cazenove, Allied's broker, last

week sent a note to clients cutting its year-end forecast by about £35m and suggesting that



In need of a tonic

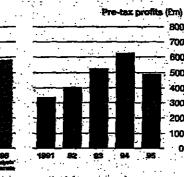
the news at the annual meeting might be bearish. As word leaked out about the note, Allied's share price started to slide from 527p at the beginning of last week.

After the annual meeting, brokers cut forecasts by about £50m, taking some estimates as low as F585m. for earnings of 34p a share, against pre-tax, pre-exceptional profits of £635m for the year to last August.

in low spirits

Earnings of 34p would give thin cover for a dividend forecast at around 26.5p against 27.6p a year earlier. Whether this would represent a cut is a moot point The 1994-95 payout was slightly

end and payment of a foreign income dividend. "The stock's yielding 6.2 per cent which is high for a FT-SE 100 company and reflects ner-



vousness about the dividend,' Analysts said shareholders were banking on Sir Christopher Hogg shaking up the company when he takes over as chairman

on April L.
Of the setbacks, the US was enhanced by the change of yearmost disappointing. The group budgeted for a 10 per cent rise in Christmas sales but managed only a few percentage points.

Cheung Kong in HK\$5.3bn cash-call

By Louise Lucas in Hong Kong

Cheung Kong, the Hong Kong property developer controlled by Mr Li Ka-shing, yesterday raised HK\$5.3bn (US\$685m) through a share placement on the colony's stock market.

The cash-raising was seen as heralding a spending spree. Cheung Kong and other big developers are eyeing a number of projects in Hong Kong related to the new airport and its rail link.

A total of 100m shares were were priced at HK\$53, a 4 per cent discount to yesterday's close of HK\$55.25.

Index closed down 0.81 per cent at 11,391.38, mainly because of a new wave of covered warrant

The latest, a HK\$2,72bn residential lot in the New Territo-

Last month's HK\$4.04bn place ment by Sun Hung Kai Properties, one of Hong Kong's biggest nies, followed a HK\$3.24bn placement of new shares by Citic BK\$2.2bn through a share placement and a further Y30bn

Barry Riley

Bond funds debate whether Emu will fly



These are testing-times for fans of European economic and monetary union. During the past few days European bond markets have been uneasily

comparing the signs of genteel panic at the Bundesbank with the complacent high-altitude misinformation pouring out of the World Economic Forum in Davos. The net result has been a bond market shake-out but nevertheless the general conviction remains that some sort of Emu will be cobbled together out of the ruins of the Maastricht financial convergence programme.

Partially insulated from the currency mayhem in another part of non-EU Switzerland, Mr Josef Marbacher of Bank Julius Baer in Zurich has put together a study of the implications of possible Emu scenarios. These he lists as the hard currency outcome, in which a few

core countries merge their currencies on schedule in 1999; an "Emu light" outturn in which the conditions are waived so that peripheral contenders such as Italy and Sweden are admitted; and finally a breakdown scenario of abandonment or deferral. He assigns probabilities of 60

per cent, 10 per cent and 30 per cent respectively to these outturns. But judging by the strong run which the peripheral bond markets have enjoyed compared with German bunds in recent months - the 10-year yield differentials for Italian and Swedish bonds have both narrowed by about 100 basis points since October - the second scenario is generally given much more weight.

However, internal fiscal policy changes affect these spreads as well as the prospects for participation in Emu. And there are oddities: for example, Irish gilts have made no net progress against bunds since October, although Ireland seems likely to meet the convergence criteria, but the Belgian bond spread narrowed in January to only 45 basis points, although Belgium's bor-rowing levels are hopelessly too high to comply with Maastricht. Perhaps the markets sniff a non-Maastricht political deal in which core currencies merge and

Perhaps the markets sniff a non-Maastricht political deal

economic constraints are almost entirely brushed aside. This would be a final, catastrophic defeat for the Bundesbank, snubbed so brutally by the German politicians over the terms of the 1990 internal monetary union involving the Ostmark. There has been a sudden slip-

page of European ratings against dollar bonds. By January, the bund spread against 10-year Treasuries had narrowed to nine basis points compared with nearly 60 basis points in October. But the spread has jumped back up to over 40 basis points. The yield curve has steepened as short-term rates have come

down but investors have become

more sceptical about the value of

longer-term bonds repayable in a

Around the markets, the possi-

soft euro.

bilities are being analysed. The Bundesbank is loosening mone-tary policy aggressively because it fears a recession in Germany? Fair enough, buy bunds. But the latest money supply and industrial production figures have been quite positive. Hold. So is the Buba cutting interest rates only to bail out France and head off a worst-case political betrayal over Maastricht? Sell. At one time last year the Swiss franc was riding high as a safe haven from the threat to the D-Mark, but more recently the markets appear to have con-

more or less. So there is no escape that way. Mr Marbacher says that even with the best-case hard currency scenario long-term interest rates will have to bear a risk premium for several years until the credentials of the new European Central Bank have been established in practice. As for scenario two, he suggests a soft compromise could add 100-150 basis points to fiveyear D-Mark interest rates. The

cluded that in practice Switzer-land will opt to track the euro.

implication for bond investors would be that the core-to-periphery shift which has been in evidence would go much further. Many fear that the outright abandonment of Emu would be highly disruptive. Interest rates would go up sharply in the soft currency EU member states. No doubt, however, the situation would be complicated by deals between individual countries -

notably Germany and France. Generally, the markets assume that something will happen around 1999, although whatever currency deal is struck the adjective "hard" seems likely to

"The largest and most successful privatisation by direct sale ever"

> Sir George Young, Secretary of State for Transport

This announcement appears as a matter of record only

Hambros Bank acted as adviser to the UK Government on the simultaneous sale, by international auction, of the three passenger rolling stock leasing companies to realise total proceeds of £2.62 billion.



haned by Hambros Bank Limbed, 41 Tower Hill, London ECSN 4HA, Tel: (0171) 480 5000. Regulated by SFA.

M PRODUCERS

Worst

are held

Some of the demands of

producers locked in a dispute with British Gas over £40km in

long-term gas contracts may

have been met by yesterday's

demerger announcement, write

Robert Corzine and Peggy

Producers had feared that

at bay

fears

Setting up defence of the domestic realm

yesterday tackled concerns that the new consumeroriented British Gas Energy (BGE) would be financially weak and in a poor position to compete in an open domestic

"It will be a pretty robust trading company," said Mr Richard Giordano, British Gas's chairman, in announcing the demerger yesterday.

In recent months there has been speculation that British Gas intended to set up a poorly capitalised company in which to dump £40bn of troublesome long-term gas contracts. But executives say that was never an option.

BGE, which is an interim name, will have revenues of £8bn, assets of £2.6bn and 22,000 employees. It will

If British Gas thought it was

adding value for shareholders

by creating TransCo Interna-

tional, and in effect ring fenc-

ing it from gas purchase liabili-

ties, the market was not so

sure. "We are not exactly doing

backflips down the trading

Getting to grips with the val-uation of TransCo will be a

long process. There remain too

many uncertainties, the largest

of which is the forthcoming

price review of TransCo's

charges, due within three

There are also questions over

the future dividend-paying

capability of the demerged

entity. It has seen one of its

largest money spinners - the

Morecambe gas fields - surren-

dered to oil the process of rene-

gotiating the take-or-pay con-

TransCo International

business, covering Britain's

267,000km of pipelines

Net assets of about £18bn

International exploration,

production and generation

businesses with net assets

cent in development stage

of about £2.6bn, 50 per

tracts now encompassed

TransCo will be largely made

up of the traditional pipelines business. With net assets of

about £18bn, it will dwarf the

Exploration and production,

power generation and global gas - grouped under the head-

ing international businesses -

will together control net assets

worth £2.6bn. The pipeline

operation is also BG's most

profitable business. In the nine

months to September 1995, it

reported operating profits of

Exploration is only margin-

ally cash generative, according

to BG while in the husiness of

power generation returns can

The prime asset of the global

gas business must be its 40 per

cent interest in the intercon-

nector pipeline between the

UK and continental Europe.

But this has yet to be built and

will require substantial invest-

ment. The company will also own some £500m of property.

All in all, the market sus-

pected that British Gas had

done little to enhance share-

holder value. If anything,

demerger might have eroded it.

pegged for disposal.

said some analysts.

take years to come through.

£740m on turnover of £2.2bn.

rest of the new entity.

within British Gas Energy.

Monopoly pipelines

20,000 employees

floor," said one analyst.

■ TRANSCO - By Peggy Hollinger

No backflips

down on the

trading floor

division and the retail outlets as well as the company's gas trading and supply arms. Its task, said Mr Giordano,

would be to "retain a significant and profitable share of the domestic market", due to be opened to full competition in 1998, and to retain market share and improve margins in the industrial and commercial markets, which are already open to competition.

Analysts were yesterday poring over its proposed structure, which has surprised some. BGE is formed around a new subsidiary company, British Gas Trading – the vehicle into which the long-term contracts have been placed.

Executives stress that the creation of BGT is a statutory reorganisation of the company

Regulatory risk would

increase, now that there was a

clear division between the dis-

puted gas contracts and the

regulated pipeline business.

This means that the disputed

contracts can no longer be a

potential influence on the regu-

price controls. Under the new

plan, the contracts will be

Ms Clare Spottiswoode, the

regulator, has said that she

would ignore the contracts

issue, because its impact on

the company is unquantifiable

at present. But analysts said

that in practice it would have

more for Ofgas, the industry

regulator, to take the sledge-

hammer to TransCo," said one

analyst. Profits would be

affected and, in turn, its divi-

dend paying capacity. This had

been signalled in the compa-

Any harsh approach from

the regulator also increases the

likelihood of a referral to

Monopolies and Mergers Com-

mission. This could delay any

firm conclusion on the environment in which TransCo will

operate until as late as the

spring of 1997, just before

demerger, making valuation even more difficult.

The market was also scepti-

cal about the prospects for the

exploration and production arm, which would lose two-

thirds of its estimated value

with Morecambe. That move

would deprive the group of substantial cash flow, which

could have been used to

develop the portfolio. This

could subdue growth in what

remained - more than half of

which is located in the North

Sea; and development demands could further inhibit TransCo's

Nevertheless, BG is adamant

that E&P has a key role to play

in the the new group. Without it, international expansion for

both power generation and gas

transportation would be diffi-

greater ease of entry in a coun-

try if we are able to do all

those things, than if we just

"We have significantly

capacity to pay dividends.

ny's statement.

"The demerger allows even

been a factor in the review.

placed into BGE.

lator when it comes to setting

required by the new Gas Act. exchange for renegotiating As such. North Sea producers contracts. cannot object to the transfer of contracts. The new entity will also own British Gas's giant Morecambe gas fields off Lan-

will also figure highly in the

company's eventual competi-

tiveness, say executives.

Mr Giordano says that the

creation of the new company

should enhance the ability of

British Gas to persuade North

Sea producers to renegotiate

contracts. BGE executives will

have a free hand to use More-

cambe in negotiations with

North Sea gas producers, some

of whom have privately said they would be interested in

buying part of the field in

Morecambe, which can supply 15 per cent of the country's gas needs even in the coldest weather, is also "a powerful cashire in north-west England. physical tool" that can be used With 4.5 trillion cubic metres to enhance the company's competitiveness, he says of gas, the two fields account for most of BGE's assets. They

Although gas from Morecambe is among the most expensive in the UK, executives note that the field is fully developed and has one of the lowest cash costs in the offshore industry.

Ofgas, the industry regulator, yesterday welcomed the demerger, which it said should ease the task of regulation. Officials also said the creation of the new company could improve the efficiency of the "With the City and analysts

British Gas Energy domestic monopoly.

And it is exactly that type of Largest gas supply and in Britain

22,000 employees

19m customers

Net assets of about £2.6bn

Annual sales of about Σ8bn

focusing on the supply business, it could help drive down costs to a more efficient level." said a senior Ofgas official. The simpler structure could also help Ofgas to "get closer"

to the supply division's cost of But the demerger will not

affect Ofgas's price control review for the company's

uncertainty which will make the company difficult to value. say analysts. Mr Giordano yesterday agreed that valuation would be tricky with so many

The company will, however, be "virtually debt-free, except for working capital". That, say analysts, reflects BGE's uncertain future, given the dispute over the contracts and the likelihood that it will lose substantial market share once full

competition is introduced. There are also unlikely to be any early dividends. Mr Giordano yesterday said the company would be "husbanding its cash reserves" until its future became clearer.

But will the company be too financially unstable to support its role as the main domestic supplier? After all, many analysts yesterday reckoned that shares in BGE would be confined to "the riskier end of the portfolio", and the company itself said it would probably prove too volatile for small

shareholders. Executives point to the fact that it will be two years or more before it begins to lose large chunks of market share. In addition, the discipline of a stock market listing should help to focus management's

thinking.
Ofgas officials appear confident that the risks will diminish once competition has been tested and alternative suppliers have established rival supply networks.

British Gas would transfer the contracts into a thinly capitalised company, which could have faltered under the liabilities. However, the inclusion of British Gas's largest and most profitable gas fields, More cambe Bay North and South, with a book value of about £2.5bn, should have eased

some of their worst fears. Nevertheless, they are likely to remain concerned about the long-term future of the company, given that they believe the potential liability of the take-or-pay contracts could be far greater than Morecambe's value. Furthermore the value is likely to be questioned by producers, as it is currently selling gas to British Gas at

rates far above market price. British Gas yesterday admitted that it had been slow in negotiations with North Sea producers to gain time to secure government approval for its plan to transfer the contracts into a new subsidiary.

A senior executive said the decision was made to slow the pace of negotiation to avoid a public row with producers. "If we had had a row with producers would we have been able

to put a transfer scheme in place," he said. The contracts lie at the heart of BG's problems which have led to demerger. The company has argued that the government's decision to accelerate competition in the gas market has left it con-

than its competitors. On average it says it is paying some 20p a therm for gas, in a mar-ket where long-term contracts are being struck at about 15p. Efforts at renegotiation have met with resistance and some producers have expressed concern about the transferral of the contracts to a new subsidiary. But producers are

tracted to take more gas than

it needs at prices much higher

approved by the government on Monday, which cleared the way for the full demerger. British Gas executives yesterday said it was a statutory reorganisation and if producers wanted to object, they

would have to go directly to

the government.

unlikely to be able to chal-

lenge the transfer scheme

Passing the flame Richard Giordano (lett) shakes

The past:

9.1986: British Gas privatised as a single

9-1988: First Monopolies and Mergers Commission inquiry calls for more openness in BG's prices.

9.1991: Office of Fair Trading requires BG to allow more competition into the market, and suggests that the company be split up.

recommends break-up of BG by 1997; and introduction of full competition in the gas market by 2000-2002. 9-1993: Government rejects break-up: recommendation, but sets a 1998 -

deadline for full competition. 9-1993: Cedric Brown becomes chief

9-1992: Second MMC Inquiry

€ 1994: January 1: Richard Giordano replaces Robert Evans as chairman.

9-1994: November: Giordano awards Brown 75 per cent pay rise.

9-1995: Gas Act requires BG to establish transportation business as a separate subsidiary.

4-1996: February 6; BG announces demerger plan, and says Brown will

The future:

9-1996 April 1: pilot programme for gas deregulation begins in south west England.

9-1996 April: Brown to retire.

9-1997 spring: BG to seek shareholder approval for demerger.

9.1998: Full liberalisation of gas market.

■ POLITICAL AND TRADE UNION REACTION - By James Harding and Richard Donkin

Labour blames 'indecent haste' of privatisation

demerger, arguing that an "unthought-out privatisation implemented with indecent haste had introduced nothing

hands with the departing

Cedric Brown yesterday

but chaos in the industry". Shareholders in British Gas had been "thrown into doubt and confusion", said Mrs Margaret Beckett, shadow trade and industry secretary, after calling Mr Tim Eggar, energy minister, to the Commons to

did one," said one BG official. Mr Eggar said he saw no Yet even BG admitted that it need for a government expla-nation: "Today's announcewould have to cut operating ment by British Gas of demerexpenses in this division before ger is a commercial decision by the company." He countered it could begin to address that Mrs Beckett's call for a In spite of reservations about the demerger plans, analysts government statement suggested that her instincts said it was a step in the right were to interfere in British Gas's decisions. "You believe direction, at least when it came to sorting out the take-or-pay contracts problems. For Tranthat you can run British indussCo International, however, try better than British manageverything would depend on the regulator. ers can.

demand an explanation.

The government pointed out

Labour yesterday blamed the that the Gas Consumers Coungovernment for the British Gas cil and the GMB union had welcomed the proposal. The prospects for consumers proved the most contentious issue in an angry debate in the Commons, as Mrs Beckett asked the government "to give an absolute assurance that the interests of consumers will be protected". The concern echoed by Labour backbenchers was that British Gas liabilities on take-or-pay supply contracts would eventually have to be

met by the consumers. Mr Eggar said: "British Gas itself is confident that it will be able to improve service to customers and lower prices." The debate followed an

angry exchange between Mr Tony Blair, Labour leader, and Mr John Major, prime minister, over the severance package for Mr Cedric Brown.Mr Blair compared Mr Brown's award with the advice from Mr Michael Heseltine, deputy prime minister, in which he con-



doned late payment of bills to

business creditors: "One group

of bard-working people told to

wait for their money, the other

given by your government a

Dennis Skinner, Labour MP for

Bolsover, asked Mr Eggar, who

On the question of pay, Mr

licence to print it!'

Sir Denis Rooke, the former British Gas chairman who headed the company when it was privatised in 1986, said yesterday circumstances had changed since he retired seven years ago.

But he added: "It is astonishing that Her Majesty's government cannot only move the goalposts but also change the game and even play the wrong way across the

There had never been any suggestion, he said, that the shape of British Gas would be anything other than a national company with a vertical structure.

if the company had not signed the early long-term purchase contracts, the North Sea fields could not have been developed, Sir Denis added.

bers in the company, said: The government has fired a bullet and watched it explode in British Gas." It said, however, it received no pleasure from Mr Brown's departure. The GMB general union which has 30,000 members at

this re-organisation will not mean the return to the redundancies of previous years and this will reassure our members that their jobs are safe." In spite of the criticism of Mr Brown's pay, it was clear yesterday he had not lost the respect of the union. Mr Mac-

Sion to divide the husiness. Mr

Donald Macgregor, national

secretary for gas workers, said:

British Gas is confident that

gregor said: "Despite the buffeting he has personally taken for the failures of the privatisation, he is widely respected by the workforce for his years of experience and commitment the company.

The GMB could not, however, resist a parting dig, referring to the pig it had named Cedric and used in protests. The union said: "He will receive a large bucket of potato-peelings tonight - he will need something to reassure him that an early retirement would not reduce his rations."

■ SHAREHOLDERS' REACTION - By Norma Cohen, William Lewis and Antonia Sharpe

Institutional concern over possible dividend cut

BACK ISSUES OF THE FINANCIAL TIMES

Back issues of the Financial Times are available by post or personal collection: *£2.50 (FT up to three months old) * £4.00 (FT older than three months)

By post: Please telephone 0171 873 4683 Personal collection: From the Financial Times, One Southwark Bridge, London SE1 9HL (9am-5pm, Monday-Friday)

Shareholders in British Gas gave a lukewarm reception to the company's announcement of a demerger yesterday, saying it heightened the possibil-ity of a dividend cut. "It used to be that a corpo-

rate break-up was meant to enhance shareholder value. Now it may be just a ploy to cut the dividend," one share-holder said. The share price yesterday slipped 2p to 2421-2p. Institutional investors were concerned at the company's comments that while it would maintain the 1995 dividend. "there are a variety of factors or events which might affect

future dividend decisions".

News of the demerger had been expected by many share-holders. However, several said that they were taken aback by the decision to create a separately listed new company to hold the contentious "take-or-

pay" contracts.

The value of creating the new company, they said, crystallised British Gas's exposure to the take-or-pay contracts. It was the announcement that the net assets of British Gas Energy would be about £2.6bn. "You now have a maximum

for corporate liabilities," said one relieved shareholder, noting that brokers' forecasts had ranged from £1.5bn to £4.5bn.

Also, shareholders said they were encouraged by the implied promise to reduce the scope of British Gas's international development activities, with a concurrent "significant" reduction in development

"We and other shareholders have expressed concern over the capital activities," one shareholder said, pointing out that the departing chief executive, Mr Cedric Brown, had his-torically favoured wide-ranging international development.

Institutional investors who had warned that Mr Richard Giordano's continued role as chairman of British Gas was

dependent on Mr Brown's successor being announced welcomed yesterday's news. "I take no pride in the per-

is standing down at the next election, if he would be joining

Mr Eggar replied: "I've not

yet received a job application

form from British Gas and, if I did, I wouldn't fill it in."

union which has 23,000 mem-

Unison, the public services

the British Gas board.

sonality thing, but the deed had to be done," one share-holder said. "Now it has been, I hope to God that Cedric is left

shareholders Other expressed relief at Mr Brown's departure, saying that the very public debate over his remuneration package had been dis-

But Mr Brown's departure may not end the debate about corporate governance of British Gas.

Several

expressed concern about Mr Giordano's role as chairman and chief executive, which is expected to be temporary.

News that TransCo would retain most of the existing British Gas debt, including all

British Gas, welcomed the deci-

of its public debt obligations, triggered a rally in British Gas bonds. British Gas has about £3.5bn of outstanding sterling and dollar denominated bonds. of fixed-income research at

Mr Frank Knowles, director Lehman Brothers, said bondholders were relieved that they would be part of the stable and cash-generative business of British Gas, and not the tradshareholders ing side with its potential

future liabilities regarding long-term gas contracts. However, Mr Knowles said

British Gas bondholders still faced risks because of the like-lihood that TransCo might seek to enhance shareholder value at the expense of bondbolders.

Yesterday Standard & Poor's. the credit rating agency, placed British Gas's double-A minus long-term rating on review for an upgrade or down-grade pending consideration of the demerger. Rival agency Moody's had already placed its British Gas rating of Al on review for a downgrade last

ars



Left to right: Ed Miller, President - Chemical Banking Corp. Michel Kruse, Vice Chairman/Global Financial Services - Chase Manhattan Corp. Walter Shipley, Chairman/CEO - Chemical Banking Corp. Tom Labrecque, Chairman/CEO -Chase Manhattan Corp. Bill Harrison, Vice Chairman/Global Wholesale Banking - Chemical Banking Corp.

Chase and Chemical have long envied each other's capabilities. But through it all, there was one trait we both shared: exceptional client focus. That's why our agreed merger is more than just combining our capabilities. It's an integration of our abilities to deliver the best solutions. An integration of people and ideas. It's a leveraging of our leadership positions to identify new opportunities for your business. It's teamwork across all lines of business to solve your individual needs. Whether those needs are on the other side of the street, the other side of the country or the other side of the world.





Adam Opel upbeat after rise for year

Adam Opel, the German carmaker owned by General Motors of the US, lifted net profits for last year above the DM307m (\$209m) earned in 1994, despite exchange rate losses of about DM300m caused by the strength of the D-Mark, Mr David Hermann, chairman, said. Turnover was marginally higher at DM25.9bn. He said the final profit for 1995 would be between the previous year's result and DM400m. He expected profits to grow further in 1996, although the overall market would show

scarcely any increase.

Mr Hermann attributed the rise in profits from increased output, the restructuring of production plants and greater attention to global markets. Opel is about to open an assembly plant near Bombay, to add to those in Turkey, Egypt, Hungary, Taiwan, Indonesia and Poland. It was also selling successfully in Japan. Further investments were planned in south-east Asia and Poland.

In Germany, he said Opel's market share edged up from 16.6 per cent to 17 per cent, with a further slight rise expected in 1996. Its new vehicle registrations were 5.6 per cent higher, against a rise in the German market of 3.3 per cent. In line with its continuing investment programme, Opel will spend DM5.5bn on its German plants up to 1998. Last year's investments totalled DM1.5bn. Andrew Fisher, Frankfurt investments totalled DM1.5bn.

Air may launch first jet

The three European companies which make up the Aero International Regional (Air) aircraft venture are considering launching their first jet. British Aerospace, Aérospatiale of France and Alenia of Italy started Air at the beginning of this year by combining their sales and marketing organisations.

British Aerospace and ATR, owned by Aérospatiale and Alenia, said they would continue to make their existing products themselves. However, Mr Henri-Paul Puel, Air's chief executive, said yesterday the venture would begin market research this spring on the feasibility of building a 70-seat twin-jet aircraft. A 85-seat version could also be built.

Mr Puel said he thought there would be interest in the let in the US and Asia and that if they went ahead, the development cost was likely to be \$Ibn. Air is also bidding to be the western partner in a Chinese and South Korean project to build a 100-seat jet. If Air wins the right to participate in the project, Mr Puel said the cost would be \$2.2bn. Michael Skapinker, Singapore

Ferfin, Montedison advance

Ferruzzi Finanziaria (Ferfin) and Montedison, the linked Italian holding companies which returned to net profit in the first half of 1995, yesterday released preliminary figures for the full year showing that turnover and gross operating profits were up significantly on 1994. Ferfin's turnover was up 9.4 per cent at L26,265bn (\$16.7bn) and gross operating profit rose 17.7 per cent to L3,623bn. Montedison, with interests in agribusiness, energy and chemicals, increased turnover by 13.2 per cent to L24,380bn, while gross operating profit was up 16.4 per cent at L2.955bn.

■ Cofir, the Madrid-based holding company controlled by Italian financier Mr Carlo De Benedetti, has increased by Pta1bn (\$8m) the capital of Dagesa, the supermarket chain in which it has an 80 per cent stake. The move will finance new John Simkins

CORRECTION

Jürgen Schrempp

A picture in yesterday's edition labelled as Mr Jürgen Schrempp, Daimler-Benz chairman, was not Mr Schrempp, We apologise for this error.

Record demand helps Repsol issue realise \$1.1bn

The placement of shares in Repsol, Spain's oil, gas and chemicals group, has broken all Spanish records for demand. It prepares the way for a rapid follow-up by the government with a global offering of equity in Argentaria, the state-controlled bank-

The Repsol issue, which cut the government's stake from 21 per cent to 10 per cent, realised Pta140bn (\$1.1bn), about Pta10bn more than expected.

Demand for the 33m Repsol shares

that were placed totalled Pta1,129bn. The issue was eight times oversub-

Warm reception for Spanish oil, gas and chemicals company augurs well for coming global offer for shares in Argentaria

12 times in the UK, 15 times in continental Europe and eight times in the

"We have never, ever seen anything like this here," a Madrid banker said yesterday. Pending final allocation of the equity, the "green shoe" or overallotment option of 4m shares was due to be exercised today in favour of UK and continental European

All the institutions will inevitably be allocated far fewer shares than

they bid for. Officials said Repsol was expected to reward the loyalty of existing institutional shareholders and to favour institutions which "showed a lot of interest in the road shows and really wanted the

stock". In the domestic retail tranche, a sliding scale was likely to be applied favouring small investors, in order to spread ownership as widely as possi-ble. Those seeking to invest Pta100,000 in Repsol are likely to have their demand almost wholly met, while

retail investors who had bid for Pta10m-worth are likely to end up with only 5 per cent of what they had sought

The warm reception for Repsol was underlined on the Madrid market yesterday, where the group's shares put on 1.38 per cent to close at Pta4,395. The price for retail investors had been set at Pta4,147 a share, representing a 4 per cent discount on Monday's weighted average price and at Pta4,335 for the institutional tranches. The success of the Repsol place-

ment augurs well for the forthcoming global offering of 32.2m shares in Argentaria, when the government is due to reduce its stake from 50 per car

BENEFIT OF THE PROPERTY OF THE

201 (Tm.)

783) 174, 173

2.5

2.7

cent to 25 per cent.

Analysts said despite the difference between the highly-prized Repsol stock and that of Argentaria, they expected a knock-on effect from the

Repsol placement that would lift demand for Argentaria. The subscription period for Argentaria shares is likely to commence towards the end of the month. It will be globally co-ordinated by Morgan Stanley of the US and by Argentaria, together with the domestic banks. Santander Investment and Banco Bilbao Vizcava.

in trading row with subsidiary

By Kester Eddy in Budapest

Sales and profits Mineralimpex, the former Hungarian state oil and gas import and export company owned by Mol, the partly privatised oil group, have collapsed amid recriminations between the subsidiary and its owner. Mineralimpex profits fell

from Ft300m (\$2m) in 1993 to a

little more than Ft20m (\$140,000) last year, according to provisional figures. Sales nearly halved from Ft70bn in 1994 to little more than Ft40bn. After inheriting a privileged position from communist days, when trading was kept separate from production, Mineralimpex dominated Hungary's international gas and oil trading until about 1993. Since then, however, contracts have been progressively transferred to Mol. Hungary's biggest com-pany by sales, and a Mol joint

In 1994 the government decided to transfer ownership of Mineralimpex to Mol. A sixmonth power struggle ensued, ending, on paper at least, with the transfer of ownership from the State Holding Company to Mol last May.

venture with Gazprom of

Russia.

Mr Gyorgy Szabo, then chief Mol executive, said the move was regarded as essential to maximise the value of Mol, then being prepared for partial privatisation, by giving it control of international trading. Mol, which loses money on

This announcement appears as a matter of record only.

imported gas because of government controls on domestic prices, saw Mineralimpex's foreign trading activity as easy money. "Just one signature, and a million dollars commission," Mr Szabo claimed.

However, the battle is not over. "The problem is that, although Mol is the 100 per cent owner, it still considers us as a competitor," said a Miner-alimpex official. "There is frustration and uncertainty over who should do what. This is a valuable asset. You would think [Mol] would see it is in its own interest to exploit it."

The man seen as the principal defender of Mineralimpex before the transfer of ownership, Mr Laszlo Pal, became Mol president in September shortly after being sacked as Minister of Industry for opposing power sector privatisation. Mr Pal said: "Mol's entire organisation is being modernised and Mineralimpex is being discussed as part of that. Mol

has decided to maintain ownership of Mineralimpex, and not to privatise it for the time "Within a few weeks the new profile should emerge. It will not work as a competitor, but as an independent company

integrated in Mol." However, Mr Szabo, now an independent consultant but still on the Mol board, does not share Mr Pal's confidence. "Mol may wish to keep ownership, but the state owns 58 per cent of Mol," he said.

Hungary oil group | Heineken finds strong global brew

Dutch group's export business is highly profitable, writes Roderick Oram

elve into the curious case of Heineken's Japanese beer cans and you learn a lot about the Dutch brewer's global ambi-tions and the three main tools at its disposal. The incident shows how

Heineken uses brewing partners abroad, its ultra-low cost breweries in the Netherlands and its well-known brand to maintain its position as the most international of brewers. Some competitors, notably

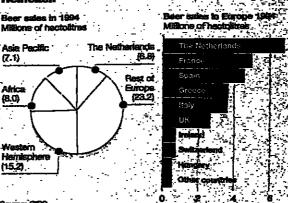
Anheuser-Busch and Miller Brewing of the US, are spending heavily to try to match its global reach. Heineken has a network of brewing and distribution relationships spanning some 170 countries, and more than 50 per cent of its sales are already outside Europe.

In Japan, Heineken produces its lager through a 51:49 joint venture with Kirin, the Japanese brewer, and sells it in kegs and bottles. The lager had also been sold in cans until last year, when it ran into some unexpected competition - from itself. Large Japanese retailers were importing cans of Hein-eken brewed elsewhere and selling them at a much lower price than those produced locally.

The uncompetitiveness of local cans reflected the complexity of Japanese distribution, with many people taking a profit between brewer and retailer. But the fact that Heineken was able to win back business by shipping cans of Dutch beer direct to the retailers was testament to its lowcost production at home.

After strenuous efforts to cut its Dutch costs, Heineken has developed a highly profitable export business. Between 1985 and 1995, raw material costs fell from 11.75 per cent to 7.2 per cent of sales, personnel costs dropped from 23 per cent to 19.1 per cent and packaging from 15 per cent to 13 per cent, according to a study by Mr John Wakely, Lehman Brothers' drinks analyst in

Heineken ploughed some of the savings into advertising and marketing abroad to build its brand's image as a premium product for which it could charge higher prices. Selling costs have risen from 9.6 per cent to 16.8 per cent of sales and are likely to rise another percentage point by next Drinks all round: brewer's network spans 170 countries



year, Mr Wakely estimates. The Dutch brewer spends for example, about \$5 a barrel on advertising in the US, compared with \$3 spent by Anheuser-Busch, the market leader. Playing to the cachet of the imported product, a bottle of Heineken costs about 40 per cent more in the US than in the Netherlands, and appreciably more than Anheuser-Busch's domestic Budweiser.

Consequently, exports are highly profitable for Heineken. They account for only about 10 cent of its sales volumes but about 40 per cent of profits, Mr Wakely estimated. Exports from Holland last year exceeded 6.2m hectolitres, up from 5m hectolitres two years before, with many markets including the US and expanding Asian countries accounting for the increase.

With exchange rates the main determinant of export profitability, Heineken watches no rate more closely than the

the guilder to the US dollar. "We can live with F1 1.50 to the dollar and we are very happy at Fl 1.80," Mr Karel Vuursteen. Heineken's chairman.

At a current rate of F11.58, exports profitable.

Moreover, each increase in marginal volume of beer exported at the right price is very profitable. Thus, Heineken signalled at an analysis' meeting last year that its goalposts had moved. It opens up markets with exports before switching to local licensed production when volume justifies. But exports are so attractive that the threshold has risen

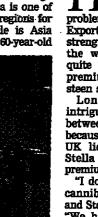


said.

Heineken appears to be pushing its luck, but the company believes constant productivity improvements will keep US

sharply for many markets.

In terms of long-term foreign investment east Asia is one of the most important regions for Heineken. Its vehicle is Asia Pacific Breweries, a 60-year-old



ioint venture with Fraser & Neave, the Singaporean brewer of Tiger beer. APB plans to spend almost \$500m over the next three years building and buying breweries in the region, particularly China. But for all the excitement of

emerging markets, some of Heineken's stiffest challenges are in mature European markets. Germany, suffering from severe over-capacity among its 1,000 brewers, is the most difficult and costly to crack.

Heineken's strategy is to build its brand as an imported premium product for voung drinkers and secure distribution initially in pubs and restaurants in only a dozen or so of the main cities.

We try to discipline ourselves to talk not about the number of hectolitres we sell but the number of pubs we serve," Mr Vuursteen said.

He added that Heineken's losses in Germany are running at less than the Fl 30m (\$18.2m) a year some analysts estimate, but the red ink will flow for a few more years while the company invests in the market. The UK presents a com-

pletely different challenge - it is the only foreign market where most of Heineken's main product lacks premium status. The bulk of its beer is 3.4 per cent alcohol and therefore is classified as a standard lager, an extremely price competitive category.

eineken and Whitbread, its UK licensee, are addressing the problem with the 5 per cent Export beer, which is the same strength as sold elsewhere in the world. "We are making quite sound progress" in the premium category, Mr Vuur-

London analysts intrigued by the relationship between the two companies, because Whitbread is also the UK licensee for Interbrew's Stella Artois, the dominant

premium lager. "I don't believe there is any cannibalism between Export and Stella," Mr Vuursteen said. "We have a very happy marriage with Whitbread. They have done a good job for us."

Fortunately for Heineken, the UK is not subjected to quite the same import issues of status or costs as the US and Japanese markets.

Südwestdeutsche Landesbank

Capital Markets plc (Incorporated in England and Wales)

DM 500,000,000

5 3/8 % Deutsche Mark Bearer Bonds of 1996/2002 guaranteed by

Südwestdeutsche Landesbank Girozentrale (Established in the Federal Republic of Germany)

issued under the

Programme for the Issuance of Debt Instruments

ABN AMRO Hoare Govett ABN AMRO Bank (Deutschland) AG

Südwestdeutsche Landesbank

CS First Boston Effectenbank

Salomon Brothers AG

Girozentrale

Westdeutsche Landesbank Girozentrale

Bank Brussel Lambert N.V.

Bayerische Hypotheken- und Wechsel-Bank Bayerische Vereinsbank AG

BZW Deutschland Branch of Barclays Bank PLC

Goldman, Sachs & Co. oHG

Industriebank von Japan (Deutschland)

Landesbank Schleswig-Holstein Girozentrale

SGZ-Bank

New Issue

February 1996

Schweizerische Bankgesellschaft (Deutschland) AG

Deutsche Morgan Grenfell

SBC Warburg ein (Deutschland) AG a Subsidiary of Swiss Bank Corporat

Banque Nationale de Paris S.A. **Baverische Landesbank Girozentrale**

Bear, Stearns International Limited

Generale Bank

GZB-Bank Landesbank Rheinland-Pfalz

-Girozentrale-Paribas Capital Markets

IBM to get payout from German unit

By Judy Dempsey in Berlin

IBM Deutschland would pay its US parent company an advance dividend of DM500m (\$340m) - the first in three years - amid signs that its financial position in Germany had stabilised, Mr Edmund Hug, chief executive of IBM Deutschland, said yesterday.

It would also start to focus on the more general consumer market in a bid to win a slice of the market in this high growth area. "The consumer division, set up last year to cater to the needs of this sec-tor, is expected to be the driv-

Hug said. Mr Hug has overseen a radical restructuring programme aimed at reducing costs and increasing efficiency, which entailed reducing the number of full-time employees from 17,500 to 15,000.

Net profits for last year amounted to DM900m, the same as the previous year. Sales increased 2 per cent to DML5bn over the same period, following adjustments which included the transfer of IBM's former semiconductor production to a joint venture with Philips, the Dutch electronics group, and the sale of another production unit to Maver & Cie.

DM2.6bn, including a 13 per cent rise in export sales from its facility in Mainz, Rhineland Palatinate, where IBM's European centre for data-storage technologies is based. Domestic sales rose 1 per cent to DM9.3bn.

Investments in fixed assets climbed 8 per cent to DM800m. including outsourcing, multimedia and consulting. Mr Hug said IBM would also focus on network-centric computing to provide customers with integrated network services, which include data, voice, imaging and video. The services division

Mayer & Cie. reported a 16 per cent increase Exports rose 7 per cent to in sales, which Mr Hug said

was well ahead of comparative expansion rates in the sector. In outsourcing, IBM doubled its year-on-year income, estab-

lishing itself as Germany's market leader. However, the personal computer market remained flat. ● ZDF, the German public broadcaster, has signed an output deal with Hearst Entertainment of the US that includes German rights to 50 TV films to be made over the next four

to five years, Reuter reports from Berlin. The deal also includes German resale rights for new films, a package of old madefor TV movies and broadcast rights for Hearst TV shows.

Weak December holds back Degussa

By Andrew Fisher in Frankfurt

Degussa, the German nicals, precious metals and pharmaceuticals company, made a lacklustre start to its 1995-96 financial year with pretax profits up only 2 per cent in the first quarter, to DM96m (\$65.3m) from DM94m a year

Mr Gert Becker, chairman, who retires in March, said the first two months of its current year to September 30 had produced a 10 per cent profits improvement. However, December had been poor, with most of the gains eroded. This left turnover in the first three months 19 per cent lower at DM3bn; excluding precious metals trading, the decline was

Mr Becker said business had

returned to normal after December, which he described as an "air pocket".

For the quarter, sales at the chemicals division were 8 per cent lower at DM1.2bn, with volume down 6 per cent from the strong first quarter of last year. Exchange rate movements pulled down sales by two percentage points, with deliveries affected by the French strikes in December. Chemical earnings were

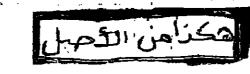
down slightly. But profits showed a "pleasing improvement" on the pharmaceuticals side, where sales were 2 per cent lower at DM530m. Profits in the dental division were higher, while the Asta Medica unit reported markedly better results. Metals sales were 31 per cent lower at DM1.27bn, with profits also down. Mr Becker said Degussa Share price relative to the DAX index

hoped to remain at roughly the same profits level as last year and was confident of producing and was confident of producing another good result. In 1994-95, profits before tax rose 44 per cent to DM404m. It has already announced a dividend rise

from DM10 to DM12.50 a share. To strengthen its pharmaceuticals activities, Degussa will ask shareholders at the annual meeting in March to authorise DM40m of new capital on top of the present authorised capital of DM80m. At yesterday's share price -down by DMI9, or 3.4 per cent, to DM539 on the disappointing figures – this would be worth DM431m.

Mr Robert Ehrt, the finance director, said the new shares would be available to exchange for assets to expand pharmaceutical activities.

He said capital spending would total around DM600m this year, with 56 per cent to be invested outside Germany. The investments, compared with DM462m last year, would mainly be used to increase chemicals capacity.



INTERNATIONAL COMPANIES AND FINANCE

Philippines cargo group enjoys 57% profits rise

By Edward Luce

UARY? 194

control the testing to the control the testing testing the control testing the control testing to the control testing testing to the control testing testing to the control testing t

period for the second of the second for the second

ierick Oran

Britis And Flesh

SPORT OF THE COURSE OF THE COU

the attraction of

: ⊒3:50E 9

THE PARTY OF THE P

The Francis

THE RESERVE

Specify Editing

er er eine da

and a strategy by

क अस्ति । अस्ति । विकास

T. 11-21-21 1/2 1/2

211. ... II 21.06 2016

Rain ditte

9 III 1221 2 2005 75

to the particle of

1000年12日 元星

が、第二次時代変更

and the Base

10 40 0 - 10 建硼锰

n in the state of the state of

(3) (3) (4) (4) (2)

Control : The mana

s salatina a PEE

. . . * : * : *

en word man

4. 医基础

Je Je 181

🛔 🧸 rithessi

. 10.8 19 **2**.

7 - 1 10 <u>2</u> 22

To a service in the

n nazoti di Kas

THE ST EVER

(190) to make

it : China

1500

International Container Terminal Services (ICTSI), the Philippines' largest cargo handling company, saw net profits leap 57 per cent to 320m pesos (\$12.2m) on the back of the country's rapid trade growth in 1995. However, the result was lower than expected by most analysts, who had fore-cast profit growth of about 70

The company, which has stakes in the recently-privatised port of Karachi --Pakistan's largest -- as well as in Veracruz, the largest port in Mexico, and Buenos Aires, said improved operating efficiency and the growth of 20 equivalent unit (TEU) traffic were behind its good results.

The 30 per cent growth in Philippine trade helped boost the company's TEU handling to about 750,000 last year, 11 per cent higher than in 1994. The company maintained its 75 per cent share of the Philip-

The installation of a fifth, 300m-peso berth at its container terminal in Manila, and the introduction of more automated work practices improved efficiency by 12 per cent to 2,600 pesos per TEU. Administrative and operating costs rose 7 per cent to 426m

Analysts, however, say the company's rising debt-equity ratio, blamed on high capital outlays on its three overseas ventures, gives some cause for concern. At 180 per cent, ICT-SI's gearing ratio is considered

too high.
"ICTSI has run up a lot of debt," said Gina Dipaling, a researcher at Asia Equity Securities in Manila. "However, if it can overcome the burden of high interest payments, the company's long-term outlook is very bright. It is the most efficient operator in the Philippines and trade growth looks set to continue rising."

ICTSI's shares, which are trading at a p/e of 21 - a 20 per cent premium to the market – closed unchanged yesterday at 16 pesos

Alcatel hitches wagon to Chinese growth

The People's Republic is expected to generate 10% of sales by 2005, says Tony Walker

r Robert Mao, the first Chinese member of Alcatel Als-Alcatel claims to be the leadthom's main telecommunications board, bears a famous surname, but similarities with China's late Chairman Mao Zedong end there.

The urbane Cornell and MITeducated Mr Mac represents the new breed of oversess Chinese businessman which is assuming greater responsibilities in large international corporations as the China market rows and companies such as

France's Alcatel globalise. From his domicila in Taiwan, Mr Mao, 52, will oversee Alcatel's "greater China" operations, including the main-land, Taiwan and Hong Kong. In turn, the company will divide China into two main administrative centres - Beijing and Shanghai - and 12

Mr Mao says the group "definitely" plans to increase its manufacturing presence in China and intends to become leader in its business sectors, There is no doubt this is a big, big market and getting bigger." says Mr Mao.

His appointment to the board in the restructuring of Alcatel's activities, which came into effect last month, is part of the conglomerate's attempt to sharpen further its focus in China, where sales topped \$2bn last year, or about 5 per cent of global sales of

telecommunications board, reflecting the company's global interests, includes four French nationals, five non-French Europeans, one Ameri-

ing supplier of telecommunications and power plant equip-ment in China, and market leader in electric railway transport. But it wants to intensify its involvement in China, based on about 20 joint ventures formed between 1983-96. Mr Serge Tchuruk, chairman

and chief executive officer of Alcatel, said in Beijing recently that within a decade the company's China business would account for between 10 per cent and 12 per cent of global sales. Alcatel's future and especially that of its telecommunications divisions - is tied, therefore, to the continued rapid growth of China's

lcatel Alsthom is the parent company of the 100-per cent owned Alcatel Telecom and Alcatel Cable: Cegelec, the electrical engineering business; and Saft, the battery maker. It has 50 per cent of GEC Alsthom, which supplies power and transportation equipment, and 44 per cent of Framatome, the nuclear power unit. All these subsidiaries and

affiliates are active in China. Framatome, for example, led the consortium which built the Daya Bay nuclear power station in southern Guangdong province, near Hong Kong, and has the commission to construct stage two. GEC Alsthorn has two joint ventures in China, and 16,000MW of generating capacity in operation, under construction or on order.



Robert Mao: 'This is a big, big market and getting bigger'

But telecommunications now leads the way. Sixteen joint ventures formed between 1983 and 1996 span virtually the entire range of modern com-munications, including digital switching, network management, interrated circuits, fibreoptic cable and digital mobile communication systems.

Alcatel Alsthom has invested about \$160m on the mainland. of which about \$100m has gone into telecommunications, with the balance shared between energy and transportation. In 1995 alone it ploughed \$100m into its China operations and expects to maintain this level of investment for the rest of the decade. The centrepiece of the com-

pany's involvement in China is its 32 per cent stake in the Shanghai Bell Telephone Manufacturing Co (China's Miniscation has 60 per cent and the Belgian government 8 per cent), whose output is forecast this year to be 5m lines from its new \$170m factory in

Shanghai. ing integrated circuits and Mobile Communication for digital mobile networks.

Alcatel is using Shanghai Bell, established in 1983, as a springboard for other ventures. Shanghai Bell is a partner, for example, with Shanghai Belling Micro Electronics produc-

with Shanghai Bell Alcatel Mr Tchuruk says Shanghai Bell, voted the most successful joint venture in China in 1995 in a China Daily poll, will serve as a model for Alcatel Alsthom's continued expansion. He sees the greatest potential in broadband wireess communications and intelligent networks; nuclear power and the provision of clean hurning coal technology; and

fast trains and the automation

of China's transport network.

'r Mao will co-ordinate Alcatel's disparate telecommunications activities. He expects to spend about six months of each year in China travelling between the company's regional centres. This will be necessary, he says, because purchasing decisions are increasingly being devolved to

provincial and municipal level. In the new scheme of things, Beijing, Shanghai, Taipei and Hong Kong will be Alcatel's "main operating points" for its telecommunication business. Mr Mao says. Beijing is where important policy decisions are made, Shanghai is where innovations take place, Hong Kong is where capital funds are mobilised for investment in Chinese infrastructure and Taipel is the headquarters of an

important Alcatel subsidiary. On the sensitive issue of his Taiwanese origins and domi-cile, Mr Mao says there is no reason to believe Beijing will take a dim view.

"After all," he says, "to be politically correct. Taiwan is part of China, so I don't think anyone in Beijing would raise

NEWS DIGEST

Sons of Gwalia doubles at halfway

Sons of Gwalia, the acquisitive Australian goldminer which is one of the bidders for Perth-based Gasgoyne Gold Mines, yesterday announced an after-tax profit of A\$16.6m (US\$12.5m) for the six months to the end of December, almost double the A\$8.4m reported for the first half of the previous

The company said gold production reached 137,526 ounces, a record, and that revenues from gold sales were A\$91.5m. The average price received for gold sold during the first half was A\$660 an ounce, while the average cash costs for production were A\$338 an ounce.

The company added that, based on current projects, it expected to meet its previously-announced production target of 280,000 ounces of gold for the year. Pre-tax and post-tax profits were forecast at A\$46m and A\$30m respectively. However, with gold shares generally marked down yesterday, Gwalia lost 15 cents, to A\$8.90.

Gwalia's bid proposal would see it merging with Burmine, another junior miner, and making an offer for Gasgoyne, giving It a much-enhanced interest in the prospective Yilgarn Star region in Western Australia. However, US-based Coeur d'Alene Mines is also making a rival bid for Gasgoyne.

Nikki Tait, Sydney

Davids plans to bid for QIW

Further evidence of rationalisation in Australia's grocery sector became apparent yesterday after Davids, the New South Wales-based grocery wholesaler, said it was seeking authority from the competition authorities to make a takeover bid for Queensland's QIW. QIW owns the local Spar food retail business, as well as food service operations.

If it gained approval, Davids said it would offer three of its own shares for every two in QIW, valuing its target at about A\$107.5m (US\$81m). Davids added that it expected to report interim profits before tax and abnormals of more than A\$45m

Foster's builds winemaker stake Foster's Brewing Group, the Australian brewer, said yesterday

that it now controlled 28.6 per cent of the shares of Mildara Blass, the winemaker for which it launched an A\$482m takeover bid last year. The offer is being extended until

Avon Products acquires Justine

Avon Products, the US-based company, is to acquire the privately-owned South African beauty products manufacturer and direct marketer Justine for an undisclosed sum, Justine

Justine would continue selling prestige segment products under its own name and would begin marketing a range of complementary Avon products "priced to reach every South African customer", it said,

S Korea shows strong growth

Net profits of South Korea's listed companies rose 53 per cent in 1995, largely as a result of brisk sales in manufacturing, according to Tong Yang Securities.

In a preliminary report on 522 of 565 listed companies whose fiscal year ended in December, Tong Yang said a combined net profit rose from Won5,740bn a year earlier to an estimated Won8,780bn (\$7.44bn). Combined turnover was an estimated Won306,570bn won, up 23 per cent from Won248,970bn in 1994.

Agencies, Segui

Indonesian bank plans float despite low rating

By Manuela Saragosa in Jakarta

Bank Negara Indonesia, the largest of Indonesia's five state-owned banks, plans to float later this year, despite a disappointing rating recently from Moody's, the credit rating agency. It has not been decided how much of the bank will be sold.

Mr Willy Sambalao, president direc-tor of BNI, was quoted by the business daily Bisnis Indonesia as saying that he hoped the bank would list on the Jakarts exchange in July.

However, it remains to be seen a few weeks after Indonesia's state lae shrugged off the rating's signifi-whether the bank will fulfil this aim owned banks were given low ratings by cance, noting that a D-plus rating had

Today,

since a large number of new issues are expected on the Indonesian market this year, which will make a successful privatisation more difficult. These include London Sumatra, which operates a palm oil plantation.

Last year, Indonesia was forced to halve the size of its initial public offer for Telkom, the domestic telecoms company, and cut the price of Telkom shares to below their initial range. The government is keen to ensure that the next privatisation will go smoothly.

Mr Sambalao's statement comes only

Moody's Investors Service. The agency said state banks would have to grapple for several years to resolve current problem loans.

Moody's allocated BNI a financial strength rating of D-plus, noting that BNI has "a reputation of being managed professionally" but that its main challenge was "to balance its need to support government policies and activi-ties while maintaining commercial standards in order to meet the competitive threat from private banks".

In the newspaper article, Mr Samba-lae shrugged off the rating's signifi-

also been given to such big Japanes banks as Sakura and Tokai, and that investors would be looking for growth and profit potential. He said BNI posted profits of Rp405.8bn (\$177m) in 1995, up 31.3 per cent from a year earlier. The paper did not say whether profit was net or gross.

Moody's said there were "qualitative differences in the credit cultures of the various [state] banks", that lending margins had been further depressed by "a large level of loans which have been restructured", and that the banks "are still burdened by a significant level of non-performing assets".

...but Real

Business is Global... Knowledge is Local.

Why has ABN AMRO Bank chosen Alfred Berg as its partner in the Nordic countries?

There are two obvious trends in the global financial markets. The players are getting bigger and bigger. And the trading pattern is becoming more and more global.

ABN AMRO decided long ago to be a player in the premier league of global financial business. This requires us to live up to our clients' expectations: We must be able to offer high quality services when needed, wherever they are needed and to the extent they are needed.

A basic problem is that you cannot start a global bank. Before you can be entrusted to work on a global basis you must earn credibility on a local basis. If you have not done your homework properly, you are seldom rewarded in international competition-

The solution is cooperation and networks. Here is where ABN AMRO Bank meets Alfred Berg. A tremendously successful investment bank in the Nordic countries joining one of the world's major banks which is building a full-function global network.

Alfred Berg now gains access to more than 60,000 ABN AMRO employees around the globe, to their specialist knowledge and contacts, their networks and to the bank's consolidated financial strength. Through Alfred Berg, ABN AMRO Bank is bigger than any of our competitors in the trading of Nordic

cross-fertilisation. We have great respect for what Alfred Berg has achieved in the Nordic countries

securities. Call it cooperation, synergies and

and are very enthusiastic about the prospects. Welcome to a great network of global business and financial power.

Louis de Bièvre Member of the Managing Board of ABN AMRO Bank. Chairman of Alfred Berg Holding AB Alfred Berg is the leading Nordic investment bank. It is a position that has taken 130 years to achieve. The strategy has been founded on an obsessive business idea and devoted staying power. Our obsession is that all suc-

cessful business is based on knowledge. Equity or bond investments, company acquisitions: the common denominator is knowledge about companies, markets, economics and politics.

Alfred Berg has a research staff of almost 60 people. None of our competitors can match this research commitment on Nordic companies and economy.

More than 100 equity and fixed income sales people in Stockholm, Oslo, Copenhagen, Helsinki, London and New York communicate this research daily with over 500 clients. And these are no ordinary clients. Our client list includes the largest institutional investors in the marker. That is why our placing power in Nordic securities is greater than any of our competitors' coverage.

Within our Corporate Finance departments in the Nordic countries and in London, some 50 people constantly work on new corporate business. The combination of local

knowledge about companies and markets and our strong business relationships with investors makes Alfred Berg the obvious partner for Nordic corporate activity.

The Alfred Berg Group also offers fund management services. Alfred Berg Asset

Management has over USD 3 billion under management, in stocks and bonds, in funds or in discretionary



Over the last few years Alfred Berg has received numerous awards for its research skill and sales abilities. International papers, local financial magazines as well as independent market specialists have judged Alfred Berg "Best securities firm", "Number one research organisation", "Best sales service" in competition with both Nordic and global competitors.

Backed by these plaudits Alfred Berg is now taking on its next major challenge: The capital markets in the Baltic countries and in Russia. Certainly still slumbering and undeveloped, but carrying an enormous potential.

Here, if ever, there is need for the Alfred Berg concept: Deeprooted knowledge and tenacious staying power.



INTERNATIONAL COMPANIES AND FINANCE

Restaurant side helps PepsiCo advance 10%

A turnround in the financial performance of PepsiCo's res-taurants division helped the US soft drink and fast food group report a 10 per cent increase in net profits to \$565m in the fourth quarter yester-day, excluding an accounting

Underlying earnings per share rose by 9 per cent to 70 cents a share, slightly ahead of the expected 68 cents. But reported net profits were reduced by \$384m to \$181m, or 22 cents a share, because of a non-cash accounting change.

Full-year net income, without the accounting change, rose from \$1.75bn to \$1.99bn, but the reported figure was

PepsiCo said earnings growth would have been stronger had it not been for the fact that last year's fourth quarter

year's. On a comparable basis, full-year earnings per share would have grown 15 per cent. Another factor that held

PepsiCo back in 1995 was the currency devaluation in Mexico, which is the company's biggest market outside the US. However, the company said this was countered by earnings growth of more than 20 per cent by its businesses outside Mexico.

PepsiCo said that if the reporting periods had been the same length, its beverage division would have seen a fourth quarter volume increase of 3 per cent in the US and 5 per cent internationally. On a comparable basis, operating profits rose by 1 per cent to \$269m in the US but doubled to \$34m internationally.

Nearly 40 per cent of the international volume growth in beverages came from emerging markets in eastern Europe, central Asia and India, PepsiCo said, and the company had

regained leadership of the cola market in important east European markets such as Hungary and Poland.

In the snack food division, operating profits rose by 6 per cent to \$347m in the US but fell by 9 per cent to \$103m internationally.

In the US, about 70 per cent of the division's sales growth came from the "Better For You" line of low-fat or no-fat products, but international snack sales were down because of their heavy dependence on Mexico.

The restaurant division saw a big turnround from last year's troubles, increasing operating profits by 23 per cent to \$271m in the US and by 50 per cent to \$27m internation-

But much of the US increase came from gains on the refranchising of restaurants, while the international side benefited from the lapping of a consoli-



Bollenbach checks into top slot at the Hilton

marked down Walt Disney shares briefly on Monday as a token of respect as Mr Stephen Bollenbach, the entertainment group's chief financial officer, bowed out of Burbank and checked into Beverly Hills as new president and chief executive of Hilton Hotels.

A simultaneous surge in the hotel and gaming group's market valuation was another measure of that respect, enhanced by the market's relief that Mr Barron Hilton, 68. had decided at last to step aside and content himself with being merely chairman.

Mr Hilton, son of the late, legendary Conrad, had been chief executive since 1966 and chairman since 1979. However. he had developed an unhappy talent for irritating investors with his meandering, hesitant management style.

His quest for the grail of enhanced shareholder value had led him into - and out of several of the better trodden routes, following an analysis of the group by Smith Barney, the New York investment

The choices presented to Mr Hilton - buying back group

Then a plan to spin off the gaming division, based around five Nevada casino hotels, was cancelled two weeks ago. The latest grand project - to venture into the mid-range US business hotel market and unveiled shortly afterwards.

press conference on Monday, said the scheme would be going ahead. Mr Bollenbach was not saying much.

spent the two days between the surprise announcement of his appointment and starting work "relaxing in Arizona", said he still had too much to find out before he could talk

job before", he said. Mr Bollen-

presidential and chief executive roles with that of chief financial officer, was referring to the task of running a large corporation.

But the job Wall Street wants done is the restructur-ing of Hilton. This is a role Mr Bollenbach has tackled several times in the past - always speedily and, so far, without a

During his brief tenure as Disney CFO - less than a year - he was publicly credited with convincing Mr Michael Eisner. the group's conservative chief executive, that borrowing to buy Capital Cities/ABC in last ar's mould-breaking \$19bn bid would be proper, prudent and profitable.

Apart from this diversion into "pure" entertainment, Mr Bollenbach's record appears custom-built to deal with Hilton. He oversaw the restructuring - some say salvation - of Trump Hotels and Casino Resorts. In his last coup before moving to Disney, he split Marriott Corporation, relieving the profitable hotel management interests of the burdens of the debt-laden property operations.

Christopher Parkes

AMERICAS NEWS DIGEST

Quaker Oats in red in second term

A \$40.8m restructuring charge and a \$19m write-off of excess inventories of Snapple, the soft drink, pushed Quaker Oats, the US food group, into a net loss of \$49m. or 36 cents a share, for its second quarter to the end of December. In the same nor is second quarter in the state of \$33m, or 25 cents. Period a year ago it reported a profit of \$33m, or 25 cents. However, Mr William Smithburg, chairman, said the group was better positioned for growth in 1996 as a result.

The December 31 quarter is the end of a transition period to change the start of the fiscal year. Fiscal 1396 began on January 1. Snapple, which was acquired in late 1993, had an \$80.5m operating loss in the second quarter, including \$24.4m in restructuring charges and the inventory write-off. US and Canadian grocery products sales fell 13 per cent, while international grocery products fell 40 per cent, due largely to the divestitures of the European pet food and Mexican

For the six months, group profits fell 87 per cent to \$12m or 9 cents a share, on revenues down 13 per cent to \$2.7hn.

Allstate beats expectations

Allstate, the US insurer, comfortably beat market expectations with after-tax profits of \$397m, or 88 cents a share, in the final quarter of 1995. The results, which compared with earnings of \$163m in the final months of 1994, were buoyed by steady premium growth and lower catastrophe losses. Revenues climbed nearly 10 per cent in the latest period, to \$5.9bn, aided by growth of 20 per cent in the group's smaller life insurance operations and 8 per cent in its property and liability business

For 1995 as a whole, Allstate's combined ratio (expenses and underwriting losses as a proportion of revenues) fell to 100.4, from 111.3 a year before. Its underwriting performance in 1994 had been dented by after-tax catastrophe losses of \$1.8bn, largely stemming from the Northridge earthquake in southern California. Catastrophe losses in 1995 were \$607m, \$148m of which was incurred in the final quarter.

John

Val

 $\stackrel{i}{\sim} \mathbb{K} \, B_{i,m}$

ŭ.

. .

San Market State Committee

Allstate's net income in 1995 as a whole climbed to \$1.9bn, compared with \$184m the year before, on revenues which were 8 per cent higher at \$22.8bn. That was equivalent to \$4.24 a share, up from \$1.08 in 1994. Richard Waters, New York

Sprint lifts earnings 34%

Sprint, the US telecoms company which last week finalised its international alliance with Deutsche Telekom of Germany and France Télécom, raised earnings in the fourth quarter by 34 per cent to \$278m before special charges. For the year, earnings rose 18 per cent to \$1.02bn, or \$2.89 a share.

The cellular phone business, which Sprint is due to spin off to shareholders around the end of the first quarter this year, raised operating profits 69 per cent in the year to \$145m, on revenues up 33 per cent at \$834m. During year, the number of customers rose 44 per cent to 1.5m. In the final quarter. average revenue per customer fell to \$51 from \$57 the year before, which Sprint said was in line with the industry.

In US long distance telephony, operating profits rose 47 per cent to \$204m on revenues up 13 per cent to \$1.9bn. Sprint said growth had accelerated through the year, with particular strength in the residential market. Minutes of use in the quarter were up 10 per cent, compared with 7 per cent for the Tony Jackson, New York

Greenwich Air expands

Greenwich Air Services, the Miami-based aero-engine maintenance company, looks set to become the world's bigges independent aero-engine overhauler after signing a letter of intent to take over the commercial engine services division of Aviall, the Dallas-based engine repair company. Greenwich said the price of the proposed deal was between \$260m and

Aviall's commercial engine services division had been making losses, and the company said last week it was putting it on the market. Included in the transaction are the maintenance and repair plants in Dallas and Forth Worth, Texas, and in Prestwick, Scotland; plus a components business in McAllen, Texas. The Prestwick operation, Aviall Caledonian Engine Services, employs about 850 people and won a Queen's award for export achievement last year.

Greenwich has operations at Miami International Airport, Bradley International Airport in Connecticut, JFK International Airport in New York, Westover Airport in Massachusetts, and in Melbourne, Florida. Mr Eugene Conese; chairman and chief executive, said the enlarged company would repair and overhaul 150 engines a month with sales in excess of \$750m a year and a customer base of 500 customers world-wide. Richard Tomkins, New York

Reverse at Canadian Pacific

Canadian Pacific, the hig transport, energy and property group, ran up a loss of C\$989.7m (US\$718.9m), or C\$2.90 a share, for the fourth quarter of 1995 after special charges of C\$1.09bn, against profit of C\$100m, or 29 cents, in the 1994 period. Revenues were C\$2.2bn against C\$1.86bn. For the full year, the loss was C\$823.5m. or C\$2.41, against profit of C\$393.1m, or C\$1.16, on revenues of C\$7.9bn against C\$7.1bn.

CP had warned earlier it would take the heavy special charges for restructuring its Canadian and US rail operations and its property unit in the fourth quarter. Its stock was little changed at C\$26.37 in the market.

At the operating level before the special charges, CP posted net profit of C\$470m in 1995 against C\$436.8m in 1994. The railway hotels and coal units did better, but PanCanadian Petroleum, the biggest single profit contributor, came in lower because of weak natural gas prices. Robert Gibbens, Montreal

Cash flow at Time Warner breaks \$1bn in final period

By Tony Jackson in New York

Time Warner, the US media group that is in the process of acquiring Turner Broadcasting, reported cash flow 26 per cent higher in the fourth quarter at \$1.04bn, on revenues up 12 per cent at \$5.1bn.

This was the first time that quarterly cash flow had

Turner also produced a 12 per cent rise in revenues in the quarter, to \$923m. However, cash flow was more sluggish, with a rise of only 4 per cent to

For the year, Turner's cash flow was 30 per cent up at \$571m, on sales up 22 per cent at \$3.4bn.

Time Warner agreed to pay \$7.5bn to take over Turner last August. The deal is being scrutinised by US competition authorities, which may take

Time Warner's cable-TV divi- raised cash flow 11 per cent in

est in the US after TeleCommunications Inc, resumed its growth in cash flow in the fourth quarter after being held back by government price caps earlier in the year.

Cash flow in the quarter was \$400m, an increase of 13 per cent after adjusting for acquisi-

Official price caps on the cable industry are to be lifted as part of the telecommunications bill passed by Congress last week.

The music division of Time Warner, which has been subect to management upheavals in recent months, increased its cashflow by 18 per cent for the quarter to \$295m, despite a 6 er cent drop in revenue to

The company said full-year cash flow of \$775m, before \$85m of closure costs in the third quarter, was the twelfth successive annual record.

The Time publishing division

was based mainly on magazine advertising, as well as overall rises in circulation, partly offset by higher newsprint and postal costs.

The Warner Bros film studio raised cash flow 27 per cent to \$121m, helped by the domestic success of Batman Forever, claimed to have the highest US box office of 1995.

International releases included The Bridges of Madison County and Interview with The Vampire.

Home Box Office, the pay-TV business, raised cash flow by 16 per cent to \$73m in the quarter. Subscribers to HBO and Cinemax, the group's other pay-TV channel, rose by 2.7m to total 29.7m.

The WB Network - the TV network launched a year ago in competition with the four established operators - made a loss of \$26m in the quarter and \$66m in the year. The network is claimed to reach 80 per cent of US households.

Tew York traders stock and spinning off either hotels or gaming - were superseded by speculation of a sellout of the entire group.

build a chain of more than 100 three-star Garden Inns by the end of the decade - was

Mr Hilton, speaking at a

ccording to the departing chief, who still holds 24.5 per cent of the group, Mr Bollenbach now has complete control. He will, Mr Hilton said, be "calling all the shots".

Mr Bollenbach, who had

He had, however, "done the

Charge holds back **Baxter Intl results**

By Maggie Urry in New York

Baxter International, the US healthcare company which is embroiled in a battle with Germany's Fresenius to buy W. R. Grace's kidney dialysis business, reported fourthquarter results yesterday showing strong growth in the biotech and cardiovascular

activities. Results for the period were depressed by a \$26m after-tax charge relating to the planned spin-off of the healthcare cost management business. announced last November. The spin-off is due to be completed by the end of 1996.

Mr Harry Kraemer, chief financial officer, said the group would increase earnings "in the high single digits" in 1996, and generate more than \$500m of cash flow from

operations. Before the charge fourthquarter net income was 17 per cent higher at \$202m and earn-

BRADFORD &BINGLEY

\$150,000,000

Floating rate notes 1999 Notice is hereby given that

the notes will bear interest at 6.4375% per annum from

a 0.4513apper annum non 5 February 1996 to 7 May 1996. Interest payable on 7 May 1996 will amount to \$161.82 per \$10,000 note.

Agent: Morgan Guaranty Trust Company

FT CITYLINE

Sector reports by Fax

Banks and Insurances

0891 437 151

The latest share price

reports by dialling the above number from the

handset or keypad on your fax machine.

For details of Cityline International services to customers outside the UK, pieces call 4-14 (7) 873-4379

JPMorgan

ings per share ahead 21 per cent to 74 cents. After the item. net income was ahead from \$172m to \$176m, and from \$596m to \$649m for the full

Earnings per share in the quarter were up from 61 cents to 65 cents, and from \$2.13 to \$2.35 for the year. The faster earnings growth reflects a share buy-back programme. Net income from the con-

tinuing businesses - the medical technology side which would take in the Grace business if Baxter wins - rose 11 per cent in the final quarter to \$148m, with earnings per share up 15 per cent to 54 cents. For the year, net income from these activities fell from \$406m to \$371m, because of restructuring and litigation costs.

Those businesses being spun off increased net income in the quarter from \$39m to \$54m. before the \$26m charge. For the year, they raised net income from \$190m to \$278m.

The Financial Times plans to publish a Survey on

Sovenia

on Thursday, March 14.

The survey will discuss Slovenia's political stability and developments in that area; also its rapidly improving infrastructure. Other articles will include the economy, trade, banking and finance and industry. For more information on editorial content and advertising opportunities

available in the survey, please contact:

Mr Zeljko Paul Mandic Tel: +44 (0)181 399 8828 Fax: +44 (0)181 399 7196 Patricia Surridge Tel: +44 (0)171 873 3426 Fax: +44 (0)171 873 3204

or your usual FT representative

FT Surveys

SSTERS To bring together those who have money to invest with those who seek to raise it is a fundamental of international investment banking. To do so in primary and secondary markets with skill and strength, in a way and at a price that leaves both sides well satisfied, is a fundamental of BZW. INVESTORS



INVESTMENT BANKING, FROM A

REGULATED BY SEA AND IMPO

BSkyB under fire from Lords and OFT

By James Harding and Raymond Snoddy

 $\{ \zeta_{ARY} \}$

term

संदेशकार्य जिल्ला संदेशकार्य जिल्ला

A SO CAMPE S ASSET

Tong Stong

Marketon balana

300 1000 2015

Tri politica de la companya de la co

The state of the s

* 7.

The Transport of the Party

0.00

The State of the S

1:-----

the state of the s

31 (27) 27) 920<u>8</u>8

a. (m. m. 180

19 -- (-1) 19 18 1

feri maniens

and the second

e thinter to the the engles with section

tale turn to Hage han, Austria fer feit

Later of the Control

to the counter ring.

or constituting

- 1 -- 1 1 1 1 - 2 <u>-</u> 2

n ka namati

To the state of th

in and the

No. 117 1271122

are ileate

ಸ್ವರ್ಣ-ಗಳು**ತ್ತಪ್**ಡಿ

nds

lin, or tersefe err 88sin <mark>Strag</mark>

។ ប្រើសារការ៉ូវបង្គ

The Contra Asia

シャングへ は10月2年

**** <u>12</u>*** attent

er om er og attende

or an order to be the second

- - 1.5

المعتقادين المراسية

್ಷ ೯೯ ಕಿರಡ

5. 5.741 - 4. 7.7344

يقتعت هن

a Surveyor

and despitation

e. Original all littles and

inch in the reference conditions

ın Pacific

1. The 1825

**:- * * \$1 35<u>E</u>

The No. 12: 11-2 &

Error Com

Cat Marcian

itions

s Terrain

The Spanish Com

The House of Lords last night inflicted a humiliating defeat on the government by voting to keep sports events such as the Derby and the FA Cup Final on terrestrial television by law.

In a convincing vote against the government the Lords pushed through amendments to ensure that the so-called "crown jewels" of the sporting calendar would not be bought up by subscription television companies such as British Sky Television, the satellite ven-

The Lords rebellion came on the day the Office of Fair Trading decided to refer two exclusive sports agreements involving BSkyB and soccer's Premier League to the Restric-

tive Practices Court.
The OFT complained that the Premier League operated as a cartel because Premier League clubs were unable to sell their television rights to broadcasters without League permission. It said the exclusive deal between BSkyB and the League also contained sig-nificant restrictions on trade.

The news knocked 22p off BSk) B shares to 393p despite the announcement of a 93 per cent increase in pre-tax profit to £106m (\$163m) in the six months to the end of Decem-

The vote in Lords is a particular embarrassment to Mrs Virginia Bottomley, national heritage secretary, who tried to head off mounting opposition in the Lords by publishing a discussion document on the issue last Friday.

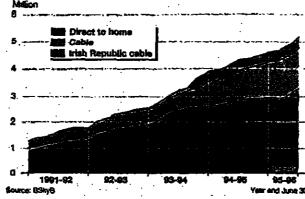
The decision by the OFT was condemned yesterday by both BSkyB and the Premier League. Mr Sam Chisholm, chief executive of BSkyB, called the decision Bridgeman too far" in a reference to Mr John Bridgeman, the director-general of fair

However he was confident of the outcome at the Court. BSkyB's profits were better than expected with record subscriber growth, and leading to the payment of its first dividend since flotation.

The company now offers 28 television channels to subscribers and will probably have more than 100 next year through the launch of a digital

Total subscriber growth

The transfer of the contract of the first of the contract of



The profit was helped by a £44m reduction in net debt, as proceeds flowed from the December 1994 flotation. Operating profit rose by 34 per cent to £137m on turnover up 30 per cent to £464m.

Mr Chisholm said: "The last quarter of 1995 was our best ever; net subscriber growth of 354,000 was a record, and we signed up our flye millionth

subscribers, with 3.17m view ing with satellite dishes and 1.56m through UK cable networks. A further 450,000 subscribe on cable networks in the Irish Republic. The subscriber total was up

17 per cent compared with the same period last year. The increase in subscriber numbers has been reinforced by the amount of money they spend. The number of satellite dish subscribers taking at least one By the end of the year, premium channel has risen to Mr Chisholm said yesterday BSkyB had a total of 5.18m 97 per cent and 72 per cent he believed the range of pro-



take "the top tier package" of all the premium movie and sports channels. Mr Chisholm said yesterday grammes available was responsible for the subscriber growth. Seven new programme services were added last October and

Arjo Wiggins Appleton, the Anglo-French paper group, £788.9m to £969.9m (\$1.49bn) in the fourth quarter of 1995. Turnover for the year rose 22 £3.56bn.

However, the turnover rises

marked in the second half. when demand fell so sharply that paper groups were forced to shut down large parts of their manufacturing capacity.

Analysts said the fourth quarter turnover figures were in line with expectations, and did not persuade them to change their profits forecasts. The consensus is for Arjo to

the previous year.

UK taxation

LEX COMMENT

As ever, Conservative MPs Capital Gains Tax receipts are energetically lobbying unloved capital gains tax. Their enthusiasm is understandable. CGT is over-complex, high by international standards, probably discourages entrepreneurs, yet yields precious little for the exchequer. The snag is that it is probably a necessary

evil. Cutting the rate - or ultimately abolishing the tax altogether, as the prime minister would like - would be expensive. The reason is that it would create lavish opportunities for tax avoidance,

through dressing up income as capital gains. True, many of the old loopholes have been closed. But no one should expect the tax experts not to find new ones. Another popular scheme for reform aims to encourage "long-termism", by charging less

CGT on gains from long-term investments.

This is perverse: it deliberately sets out to make markets less efficient. But even if the objective made sense. CGT changes are unlikely to do much to deliver it because many of the biggest alleged short-termists, such as pension funds, do not pay the tax.

And if, as seems likely, any changes are restricted to individual taxpayers, it would be largely irrelevant because of the

small proportion of equities individuals hold, many of these in

None of this means CGT reform is a lost cause. There is certainly scope for simplifying the tax, or for small-scale reliefs targeted at entrepreneurs. But the big ideas in this debate look suspiciously like expensive gimmicks.

Johnson Matthey expands in US

By Christopher Price

Johnson Matthey, the precious metals and engineering technology group, yesterday underlined the strategy of expanding its electronic materials business with the \$40m purchase of the circuit board manufacturing operations of Cray Research, the US computer group.

The move is part of the UK group's attempt to reduce its reliance on the precious metals and catalytic systems businesses, and follows the \$170m acquisition of Advanced Circuits (ACI), a manufacturer of semi-conductor products, in September....

Mr Geoff Wild, president of Johnson Matthey's electronic materials division, said the tion facility would fit well with ACI's printed circuit board business. In particular, the two acquisitions would combine well to exploit the growing demand for plastic laminated packaging for semi-

conductors. Half of the output capacity of the new production facility, based in Wisconsin will go to supplying circuit boards to

Revenues from the contract with Cray are believed to be about \$25m a year. The remainder of the capacity will be used to produce laminated boards for ACL

Full production is likely to be achieved within the next six months. Some 350 people, mostly engineers, work at the plant, which Johnson Matthey claims is one of the most advanced in the US.

"We have the pieces of the jigsaw in place now to really take the electronic business forward", said Mr Wild.

Johnson Matthey has ear-marked \$200m for investment in the division, which already contributes about 20 per cent of group revenues, over the next five years. Johnson Matthey shares rose

8p to 567p.

Medeva withdraws from Germany with DM121m Ribosepharm sale

By Motoko Rich

Medeva, the acquisitive pharmaceuticals company, has withdrawn from Germany and the oncology market with the disposal of Ribosepharm, its cancer drug business, to Klinge Pharma for DM121.6m.

Dr Bill Bogie, chief executive, said that because the business required a specialised sales force, the group could not exploit its existing international distribution system.

Furthermore, he added, the group had been unable to buy or license appropriate products or businesses to build the division into a core area.

Shares in Oriel leapt a further

22p yesterday to 148p after the insurance intermediary con-

firmed it was in talks that

could lead to an offer being

made for the group. Oriel's

The possible purchaser is

understood to be Aon, the US-based broker. However, neither

Aon nor Oriel would confirm

A takeover of Oriel would further shake-up the UK insur-ance market where smaller

companies are increasingly

looking for bigger parents that

would give the financial strength to develop businesses. Oriel has confirmed that it is

close to selling CGA Direct, its

shares rose 15p on Monday.

Oriel shares rise

on takeover talks

"Medeva is all about taking businesses and developing them," he said. "But if you cannot do that there is no point in watching the business wither on the vine." Ribosepharm was acquired in May 1993 for DM125.5m. In 1995 the business generated operating profits of £7.2m (£6.4m) on

The disposal significantly reduces the group's exposure to Europe. Last year Ribosepharm contributed 6 per cent of group turnover. Total sales in Europe comprised 10 per cent of group revenues. Dr Bogie said the proceeds would be invested in new acquisitions. "We are building up a war chest," he said.

By Simon Kuper

erate, for \$51m.

sales of £15.5m (£14.6m).

household insurance telebrok-

ing business. The operation has been for sale for more than

six months and could raise

Oriel focused on its expanding

used and new car warranty

activities and creditor busi-

ness. Analysts thought a deal

to acquire those remaining businesses could be worth

Mr Nigel Cayzer, Oriel chair-

man, said the group was "in tentative discussions" with a

third party but he could not

Aon is understood to have

approached inchcape, the mar-

keting and services group, last year about acquiring its Bain

Hogg broking arm. Inchcape

comment on its identity.

decided not to sell.

That disposal would leave

more than £10m.

230m.

Analysts downgraded their 1996 forecasts from £92.5m to £87.5m as a result of the sale. One said: "It is far better to cut and run than carry on. The fact is they go a 20 per cent pre-tax return so financially it was not a bad investment."

Klinge Pharma is paying DM111.6m in cash. The balance is being held as a security against tax and other warranties. The group estimated the net asset value of Ribosepharm at December 31 to be £6.4m and said the disposal would increase its net asset value by £42.8m.

Dr Bogie said the group was not currently considering further business dispos-

of about £140m.

over 37,000 boed, giving sales

reserves at 70m barrels of oil at

the start of 1996. The compa-

ny's net share would be 11m

Mr Roy Franklin, Clyde's

managing director, said the

site's unexplored potential

came to another 30m-40m har-

rels. Clyde proposes to develop

at least one well during 1996.

Exploration costs at the site are fully tax deductible.

MPIL's profit in 1994 was

11.5m on its entitlement of

1.3m barrels from the field. Mr

Franklin said the deal would

raise Clyde's gearing from the mid-30s" to the "mid-40s", but

expected it to fall below 40 per

cent by the year-end.

gross remaining

Clyde Petroleum

buys in Indonesia

independent oil company, is fields'

buying Marathon Petroleum

Indonesia from Marathon

International, the US conglom-

The purchase will give Clyde

a 31.25 per cent stake in the

Indonesian offshore Kakap oil-fields, which Clyde expects to

yield an average 43,000 barrels

of oil a day in 1996. The com-

pany estimated its share at

7.300 barrels after the Indonesian government had taken its

85 per cent share of all "profit

The Kakap oil would boost

Clyde's forecast production to

38,500 barrels of oil equivalent

a day (boed) in 1996. In 1995 it

produced an average of just

Arjo Wiggins turnover advances on higher prices

reported turnover up from per cent from £2.91bn to

masked a weakness in underlying demand, being primarily the result of higher paper prices and contributions from acquisitions made during the year. Analysts said if these factors were excluded, turnover was probably flat in 1995.

Sales weakened in the sec-ond half of last year because of customers' destocking as paper price increases finally began to show signs of levelling. Rising prices had led to a build up in stocks as customers tried to buy paper as cheaply as possible

Destocking was particularly make profits of about £190m in 1995, compared to £217m in

Outsourcing by Scottish Widows

Scottish Widows, the mutual life assurance company, is to transfer the administration of its £22bn (\$34bn) investment portfolio to WM Company, the Edinburgh-based group which specialises in investment performance measurement and administration.

It is believed to be the first outsourcing decision of its kind by a UK life assurance company. Although investment management outsourcing is common in the US it is still rare

While Scottish Widows will continue to manage the portfolio and decide where funds are placed, the administration – including trade settlement, securities reconciliation, income collection and tax recovery - will be handled by WM. James Buxton and Nick Denton

Russia export deal by Middlesex

Middlesex Holdings, the metal trading company which operates in the Commonwealth of Independent States, has set up a subsidiary, Middlesex Balli, to export an annual \$300m of steel products from Oskol Electrometallurgical Kombinat (OEMK) in Russia. -

Middlesex is providing \$5.1m towards the \$17.5m working capital and holds 51 per cent of Middlesex Balli. The remaining equity is shared equally between Balli Trading, another international trading company, and Sir David Alliance,

chairman of Coats Viyella.

Middlesex has also been given the right to subscribe for 20 per cent of the capital of OEMK, which Middlesex says has a production capacity of 1.7m tonnes a year. Kenneth Gooding

Gardiner grows in Europe

A broader product base and expansion in continental Europe helped Gardiner Group, the security systems distributor, improve turnover from £80.6m to £90.4m (\$140m) last year. Mr Richard Clemons, chairman, said the group was now benefiting from its broader base: a quarter of sales came from the distribution of closed-circuit television and fire products; and 47 per cent of group profits were generated through European operations.

This announcement appears as a matter of record only

December 1995

(0,003) (356.9) (80.6) (2,71) (4.52) (26.9) 0.016 484 90.4 0.114L 106.3 3.34 0.241 6 miths to Nov 30 = 6 miths to Dec 31 Yr to Oct 31 2.5 Apr 12 0.85 0.65 2.59 3.72 ... 6 mitres to Oct. 31 Investment Trusts .Yr to Dec 31 9.54 (8.94) .Yr to Dec 31 84.94 (87.34 0.18 (0.15) 1.98 (1.48) May 3 Apr 26 4.58 (3.84) 0.5 (0.37) Earnings shown basic. Dividends shown net. Figures in brackets are for corresponding period. After exception \$USM stock, I Duton floring. MI Comparatives for previous 12 months.

NOTICE

AUTOLATINA BRASIL S.A.

Effective as of December 1, 1995, Autolatina Brasil S.A., São Paulo, has changed its legal name and form to :

VOLKSWAGEN DO BRASIL LTDA.

The ownership of Volkswagen do Brasil Ltda. is now held by Volkswagen Comércio e Participações Ltda., a fully owned Brazillan subsidiary of Volkswagen AG. All duties of Volkswagen do Brasil Ltda. arising from the issue of the notes named below which are officially listed and traded on the Amsterdam Stock Exchange remain unchanged by this modification of name, corporate form and ownership. The unconditional and inevocable quarantee given by ABN AMRO Bank N.V. for the repayment of the Notes remains unchanged. The Notes in question are:

US\$ 100,000,000.00 Guaranteed 71/s percent Notes due 1997 ASE Security Code 003836622 Common Code XS0038366224

As from February 12, 1996, the above mentioned Notes may be presented to ABN AMRO Bank N.V., Herengracht 595, Amsterdam, to receive a stamp Indicating said changes.

The presented Notes will have to be accompanied by a list stating the numbers.

In order to handle the stamping free of commission for the noteholders, the members of the Vereniging voor de Effectenhandel will be compensated, according to Groular 90-56 of the Vereniging your de Effectenhandel, with NLG 2,00 per denomination.

Amsterdam, February 5. 1996

ISIN-Code

U.S. \$53,000,000 Banco Internacional S.N.C. Floating Rate Notes Due 2000

In accordance with the provisions of the Notes, notice is hereby given that for the six month interest Period from 7th February, 1996 to 7th August, 1996 the Rate of Interest has been fixed at 5,9375% p.a. and the interest Amount payable on the relevant interest Period Date 7th August, 1996 in respect of each U.S. \$100,000 nominal amount of the Notes will be U.S. \$3,001.74.

Reference Agent

Standard & Chartered

Standard Chartered Capital Markets Limited

7th February, 1996

FORD MOTOR CREDIT COMPANY U.S. \$ 250,000,000

FLOATING RATE NOTES DUE AUGUST 4, 2000

in accordance with the provisions of the above mentioned Notes, notice is hereby given as follows:

Interest period: February 5th, 1996 to May 7th, 1996

(92 days) Interest payment date; May 7th, 1996

Interest rate: 5,5425% per annum Coupon amount US \$ 141.64 per note of US \$ 10,000

US \$ 1,416.42 per note of US \$ 100,000

Agent Bank BANQUE INTERNATIONALE BLANCE ALLIXEMBOURG

Sands Holdings (UK) Limited

US \$75,000,000 **Revolving Credit Facility**

for the acquisition of Neste's UK North Sea upstream interests

> Joint Amangers **BZW CIBC Wood Gundy**

Providers of Funds Barclays Bank PLC Canadian Imperial Bank of Commerce ABN AMRO Bank N.V. Bank of Scotland

Christiania Bank og Kreditkasse

Technical Banks Barclays Bank PLC Canadian Imperial Bank of Commerce

> Agent Barclays Bank PLC



Wood Gundy .

BUSINESS AND THE ENVIRONMENT

Basis for a building

esigners of a building intended as a model for low energy and "environmentally aware" offices of the next century are taking their philosophy right down to the foundations.

Crushed concrete from a 12-storey office block being demolished in central London is being used in the Energy Efficient Office of the Future, under construction at the **Building Research** Establishment's Garston site in

Hertfordshire. In what is said to be the first use in the UK of recycled aggregates in ready mixed concrete, the material from the old bank building is being used as coarse aggregate in more than 1,000 cu m of concrete supplied for foundations, floor slabs and structural columns.

The project is a practical demonstration of work carried out by Rod Collins of BRE's inorganic materials division. Its aim is to show that crushe concrete can be put to high grade use as well as being used for site fill or for landfill

engineering. Use of recycled aggregates would thus support the UK's commitment to the principles o sustainable development and help achieve official targets for the contribution of secondary materials to aggregate

supply.
According to BRE, the new concrete's handling characteristics, including its pumpability, have been excellent and completely unaffected by the use of the recycled materials.

The ready mixed concrete was Rickmansworth plant, using ground blast furnace slag, a by-product of the iron-making industry, to replace at least half of the Portland cement in the two different mixes.

The slag saves money, resistance of the concrete and works well with the recycled

Andrew Baxter

rance's nuclear tests in the South Pacific may have provided the main focus of controversy for anti-nuclear campaigners in recent months, but for the people of Maki, a town in northern Japan, the big issue is right on their doorstep.

A plan by Tohoku Electric Power,

the main electric utility providing electricity in northern Japan. to build a nuclear reactor in the town is hanging in the balance, and may become the latest casualty of rising anti-nuclear sentiment around the

Public anxiety over nuclear power is now having a direct effect on the nuclear equipment industry. Last month, in elections for the mayorship of the town, residents elected Takaaki Sasaguchi, who had been calling for the country's first referendum on the construction of a nuclear power plant.

The industry's problems have been compounded by the recent leak of three tonnes of non-radioactive sodium coolant from an experimental fast breeder reactor at Moniu in western Japan. The reactor. Japan's newest, was closed down after the leak, but local residents want it shut permanently.
As a consequence of this mount-

ing anti-nuclear sentiment, domestic demand for nuclear plants is faltering, and equipment suppliers have been forced to scale down or restructure their nuclear plant divi-

Little wonder, therefore, that Japan's nuclear power plant build-ers are looking beyond the coun-try's borders, in the hope that new demand from Asia could offset the problems they are facing at home. Although Tohoku Electric announced the construction plan for the Maki reactor in 1969, the project has been fraught with problems from the beginning. The company paid local fishermen Y4bn

(£25.5m) in compensation, but was forced to halt administrative proce-

dures in 1983 as land speculators

and anti-nuclear groups bought up small plots of land in the planned The plan has divided residents of Maki, a town of 30,000. Calls for a referendum reviewing the reactor construction heightened in 1994 folowing an abrupt announcement by Kanji Sato, the then mayor who had been elected on an anti-nuclear platform, that he would support the construction of the nuclear power

Sato, who has tried to obstruct a referendum citing "political confu-sion", resigned last December following a request for his recall eccompanied by signatures of 10,231

Atsuko Takashima, a supporter of Sasaguchi, reckons that the changes in the resident profile of Maki, which has become a dormiPublic opposition to nuclear power in Japan has forced utilities to go elsewhere, writes Emiko Terazono

Not in my country



The adverse climate for nuclear power has boosted the time needed to obtain local approval for the construction of reactors

tory town for the nearby city of Niigata, have broken old political influences and increased awareness over the nuclear issue.

And while the turnout for last nonth's elections was a record low 45.8 per cent, Sasaguchi reckons that many residents believed his victory was secure and did not bother to vote. This was because the pro-nuclear camp had failed to find a candidate due to the Monju accident, which occurred a few weeks before the election.

Although the Japanese government's energy plan calls for the con-struction of 15 nuclear power stations over the next 14 years on top of the current 47 reactors to produce 70.5m kilowatts of power by 2010, there is a fear that the target may not be met.

Some utilities have already abandoned nuclear reactor construction plans. Apart from Tohoku Electric's

Power recently announced a freeze on its plans to site a plant in Miyazaki on the southern island of Kyushu, due to strong local resis-

The adverse climate for nuclear power plants has boosted the amount of time and funds needed to

As a consequence of this mounting anti-nuclear sentiment, domestic demand is faltering

obtain local approval for the purchase of land and construction of nuclear reactors.

According to a survey by the Ministry of Trade and Industry (Miti), during the 1970s it took 10 years for an electric power company to start problems at Maki, Kyushu Electric operating a plant once the plans

were announced. However, this rose to 17 years during the 1980s and 25 years in the 1990s, and the problem could be aggravated by the Monju

For the Japanese nuclear industry, therefore, the grass looks greener elsewhere. Asia's fastgrowing economies are creating huge new demand for electricity, and more than 20 nuclear plant projects are being planned in parts of Asia including China and Indonesia.

Japanese nuclear plant manufacturing groups which include Mitsubishi Heavy Industries, Hitachi and Toshiba are eager to enter the expanding market. Mitsubishi is interested in Indonesia's plant project, while Hitachi and Toshiba will team up with General Electric to bid for Taiwan's planned nuclear

reactor. The overall slowdown in new orders has prompted Japan's nuclear power plant makers to

restructure their operations. Ishika-wajima-Harima Heavy Industries said it would reduce the workforce in its nuclear power plant division by 200 to 850 over the next few years by shifting employees to other parts of the company. Hitachi also plans to send some of its nuclear engineers to its semiconductor divi-

The slowing demand in Japan is especially severe for Mitsubishi group, led by Mitsubishi Heavy Industries which specialises in pressurised water reactors (PWRs). No plans for PWRs have been

announced since an accident in February 1991 at the Mihama PWR plant, which Mitsubishi built for Kansai Electric Utility north of Kyoto. A broken pipe caused 55 tonnes of radioactive water from the primary cooling system to be released into the secondary system which powered the turbine.

Mitsubishi has no new orders

after a PWR it is currently building for Kyushu Electric. New reactors planned for construction in Japan over the next five years have been boiling water reactors, which are made by groups led by Hitachi and Toshiba, although PWRs still domi-nate the international nuclear

industry.
Mitsubishi is eager to fill the gap with orders from Asia and says it is probably able to construct a reactor with the expertise it has accumulated domestically. "With other countries cutting down research and development and personnel, Japanese companies have expertise in actually using new technology and building new plants," it says.

But Japanese companies are more likely to team up with their European and US counterparts for projects in Asia rather than bldding alone partly because they are latecomers to the market and partly due to the fact that Japan has yet fully to develop nuclear waste

"The chances are that Asian countries will want to offer the project to a company or a consortium which has nuclear waste reprocessing know-how," says an official at a Japanese plant maker.

The Japanese government is also ready to back the companies by enhancing ties between Asian companies by offering training projects for nuclear regulators. Starting next fiscal year, Miti is planning to accept officials from Asian countries in charge of regulating their

nuclear industries to offer training. In Maki, meanwhile, the newly appointed Sasaguchi says he is not a proponent of a freeze on Tohoku Electric's nuclear plant in Maki, but wants local residents to decide. His first challenge will be passing the town's budget for next fiscal year in March through the town asse where the pro-nuclear camp holds a marginal majority.

Net turns green

using the Internet to earch for information that will help them assess the environ-mental impact of their farming and land management decisions as part of a project with Edin-

burgh University.

The crofters, together with a forestry group from Valencia in Spain, will join researchers from the Netherlands, Germany and the UK in a 2250,000 project to develop and try out software to back up their long-term deci-sions about the land.

"We would like to explore to what extent computer technology could be useful in gathering and manipulating information for us," says Bill Ritchie from the Assynt Crofters Trust.

Four years ago, the crofters bought 21,000 acres in the northwest highlands of Scotland on which they are tenants. They now have many plans for the land, but it is in an environmentally sensitive area and they want to assess the impact of their plans on the ecosystem.

Ritchie explains that they hope to build a hydro-electricity eneration plant which involves raising the level of a loch. "We want to judge what the long-term effect of that would be on the fishing in the loch and what we can do to minimise any damage," he says.

9120 E

Ritchie is hopeful that the crofters can gain access to other studies either through the Internet or from other sources. Computer modelling could then apply the data to their own local

The Valencian foresters are looking at restoring land that has been burnt by wildfires and want to find information to assist them.

The project will initially last one year, but is likely to be extended for up to four years in order to set up the farmers with the right equipment and skills to use the information they find. It is being funded by the Euro-

> Deborah Hargreaves.

Pioneering Aviation in Africa

ETHIOPIA

links ASMARA to the world

We have more destinations

in Africa than any other

international carrier,

offering gateways to

the four corners of the earth

-with a reputation for

HOSPITALITY

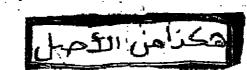
that you should try!

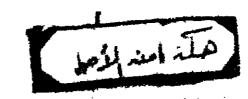
Call ETHIOPIAN - or your travel agent

without delay!

The new IT Recruitment Section every Friday in the FT. And all week on www.FT.com.

If you're looking to move from your present job, or looking to recruit new people, the FT is iT from Friday, February 9. For more information call Clare Bellwood on +44 (0) 171 873 3351 or Will Thomas on +44 (0) 171 873 3779.





COMMODITIES AND AGRICULTURE

Brazil halts gold trading to quell rumours

By Jonathan Wheatley in Sao Paulo and Kenneth Gooding in London

184. 198 S

nd the Scottal nds could soon be interned to that all second that all second the could not be compared to the could not be compared

saces the string to of their farming magazient decima project with the

a. leitelber auf

the transport of the state of t

on von term den

d like to explore y

: Epitel technol

Parity in cathering information Bill Riteins from

Cruiters Inus.

"a also. The crother

ibi acres la de

illipliands of Sectard

" are lenance The

many plans for the

in an environmen

Ille afee and the

teres the impact of

The ecosystem

Apiaine that the

id a leidnedenning

Than which middle

read of a lock To

imale unat be

dinen finat would be

filter in the lock and

en de le militare di

in Diebell iber tel

in inchinations to migrate

in a compact the law.

n other sources (m.

and a world the

Date to their own local

long und Conesters and

burnt by wildfire me

" .: L'unturmation »

rocci will immally be

Community to tour years a

ा एक किए जिल्लाको जो

क्षाप्रशासकाः <u>अत्ये शक</u>्

eren emacion that for

g reader to the Car

Deborat

Hargreave

m 10 b

Ter-Coming land the

71 5234.

the land

In an unprecedented move, Brazil's central bank, frustrated that it has not been able to quell persistent rumours that a rogue trader has left it desperately short of gold, has stopped trading the precious

The bank has also called on the US Commodities Futures Trading Commission to investigate the source of the rumours which it suggests were started

manipulate the gold price

As frequent denials have failed to prevent the rumours from getting ever more outlandish - at the end of last week it was being suggested the bank was short of as much as 2,000 tonnes of gold, equivalent to virtually the entire annual output of all the world's gold mines - the bank said it would stop trading the metal to provide conclusive proof it was not short. Traders pointed out that the

speculation would end only if the bank stopped long enough for all its contracts to expire. This seems to be what it has in mind because Mr Joubert Furtado, head of its foreign reserves department, said the bank would stop trading gold for an indefinite period, probably some weeks".

He added: "The bank has taken this unprecedented step in order to demonstrate that it is not, as rumoured, extremely short of gold. We want to make it clear that the bank is not in the position of having to buy

gold, especially at a time when prices have been pushed higher by speculation"

Mr Furtado suggested that one of 12 gold traders through which the bank occasionally operated was "using the bank's name to manipulate the market". He suggested the trader would be subject to penalties under US law and that the central bank would seek compensation, although he would not

specify in what form.

Most analyst had dismissed the rumours, first denied by

again in January and finally last week, As Ms Rhona O'Connell, analyst at stockbroker T. Hoare & Company, pointed out, while there was a precedent for central banks, particularly in Latin America, using gold options as a method of asset management, Brazil's central bank gold holdings amount to only 147 tonnes so "any trading in the volumes the market was suggesting was thus hugely out of kilter with the physical and would have

widely around the market". Australia 'set to become second biggest producer'

Last year, BHP won a 12.4

the listed months of April ing, chief executive of the SFE, has limited risk potential".

had to have been spread very

contracts covering 125,000 farm bales of wool have now been traded, with activity par-

The SFE claims that the new options, which will trade for June and August and expire on the Friday prior to the wool futures contract delivery. should help growers lock in a minimum price for the wool they produced. Mr Les Hosksaid that the contract should appeal to "smaller market participants who are seeking a risk management tool which

The European Union has a "unique window" of up to four years for a public debate on reforming the common agricultural policy before external events force change, a senior

By Alison Maitland

European Commission official said yesterday. Mr Russell Mildon, director of international affairs relating to agriculture, told the annual

conference of the National Farmers' Union of England and Wales: "Over the next few years we have a window of stability. The aggressive [trade] diplomats in Geneva will leave us in peace until 1999. It is implausible that any central or east European country will ioin the EU before 2000".

He added: "The important thing is to have a public debate and establish a consensus

Mr Mildon outlined the com-

mission's recent internal compensation payments.
debate on the shape and pace Mr Mildon added that the debate on the shape and pace of future reform.

for farm policy reform

EU has four-year 'window'

He said it had rejected the status quo as untenable in the long term. On the other hand, radical reform - including abolishing price support and phasing out compensation payments - would threaten EU social and environmental poli-

The commission had chosen "a middle way", continuing the approach begun in 1992 with the MacSharry reforms.

"Gradually we are to wean ourselves off the old-fashioned subsidisation process."

This involved widening the reforms to cover sectors such as fruit and vegetables and wine, and deepening the reforms in other sectors, notably cereals. He did not elaborate on whether this meant further cuts in support prices or a reduction in arable area

commission would seek to begin reforming sectors untouched in 1992 such as sugar and dairy production. Answering a question from the floor about changes in the milk quota system, he said the commission was "not drafting reforms of the quota system that will hit the public domain in the next six to 12 months".

The conference earlier heard Mr Don Kenyon, Australia's ambassador to the World Trade Organisation in Geneva, call for far greater liberalisation of agricultural trade.

Mr Mildon said agricultural price stability would be "the fundamental point of difference" between the EU and the Cairns group of 14 exporting nations including Australia, which account for 20 per cept of farm trade, in the next

By Nikki Tait in Sydney

Australia could become the world's second largest gold producer, after South Africa, by the end of the decade, according to forecasts from the Australian Bureau of Agricultural and Resource Economics,

a significantly smaller producer than the US. Reporting to Abare's annual conference, which opened in Canberra yesterday, research analysts suggested that Australian mine production could

the government-owned fore-

casting agency. At present it is

increase by about 36 per cent. from an estimated 274 tonnes

The prediction is based on a rise in the gold price from around US\$400 an ounce in 1996, to US\$145 an ounce in 2000-01. In real terms, this would assume a rise until about 1997, and a tapering-off thereafter. "In real terms, the gold price is projected to remain reasonably flat over the

in 1995-96 to around 360 tonnes

in the year 2000-01.

The production is predicated on strong growth in exploration expenditure, the presence of economic reserves and industry margins.

outlook period," said Mr John

Cairns, principal research offi-

"These factors are expected to lead to the development of many new and expanded pro-jects which will result in Australia becoming the second largest gold producer in the world by the end of decade," he • Mr John Hannah, general

manager of BHP Australia Coal, said yesterday that he expected annual negotiations with the Japanese steel mills over hard coking coal price to be settled fairly shortly. He also anticipated some overall price increase, although less marked than last year's, "It won't be last year's price rise, which was an unusual one, but

per cent price increase, but also accepted a cut in hard coking coal tonnages from 7m to 5.8m tonnes. • The Sydney Futures Exchange is to introduce

there'll be an increase."

options on its wool futures contract from February 19, the first option contract linked to a commodity futures contract on the SFE. The exchange said that the move formed part of its overall strategy of expanding its role in regional commodity trading.

The wool futures contract itself got off to a slow start last year, but around 5,000 ticularly marked since Octo-

Egypt lifts cotton export ban

In a move that should help to ease pressure on the international market for the supply of long staple cotton varieties, the Egyptian government this week has lifted its ban on cotton exports.

Last season, Egypt captured 27 per cent of the world market for long staple cotton with exports of 67,000 tonnes. But this season, in an attempt to protect public sector textiles mills from a shortfall in supply

and domestic rising cotton prices, the government delayed any announcement on exports until local consumption had been satisfied.

Egypt's main overseas buyers in Italy, Japan and Switzerland were quietly assured that deliveries would take place this season but the four month delay in announcing an export policy unsettled local farmers

The lifting of the ban only covers exports of extra long with an average of staple varieties - Giza 45,76 the 1994-95 season.

and 77. Analysts in Cairo expect export volumes to be the same as last season. But Mr Atef Obeid, the public enterprise minister, has said he wants to see a dramatic increase in volumes over the next fev years by reserving special areas for planting cotton for

exports. No export prices have been announced yet. US pima prices are at \$1.80 a pound, compared with an average of \$1.30 during

MARKET REPORT

Coffee prices stronger as investment funds return

London Commodity Exchange robusta COFFEE futures extended early gains yesterday afternoon to end 2.4 per cent up on trade and fund buying and speculative short-covering in the absence of significant producer selling, traders said. There has not been origin selling in any great shakes now for some time. . . But they do sell bits and pieces

when prices rise," said one. Traders said London's afternoon gains were sparked by a strong performance from New York's arabica contract At the close the secondmonth May contract was up

\$45 at \$1,919 a tonne, compared with the day's high of \$1,950 a tonne. There was good fund buy

ing in New York, forcing the contract through (buying stops [stop-loss orders]," said London trader. At the Cocoa Sugar and Coffee Exchange coffee futures were sharply higher at midsession, with the key March contract up 4.60 cents at \$1.25% a pound.

"I think industry is a little nervous. . . A few were caught out on Monday." said a trader. explaining that they missed the chance to fix when prices slipped on Monday to a low of LME WAREHOUSE STOCKS

tonnes		
Aluminium	+4,750	106
Aluminium elicy	+140	to 8
Copper	-4,725	to 3
Lead	+4,575	to 1
Nickel	-90	to 4
Zinc	-875	to 6
Tin	<u>-260</u>	SO TO
\$1,670. Other tra	dore n	ntad

while the industry's stocks seemed to be running low, the trade was nervous over the build-up of long positions after the market's recent run-up. Trading in base metals was sluggish on the London Metal Exchange, with little significant price movement seen, and values were mixed by the close of the after hours "kerb" ses-

Traders said market leaders COPPER and ALUMINIUM had settled into tight technical ranges, with that trend being matched by the other metals. LME Warehouse stock data announced yesterday morning had little lasting impact.

"We have settled into a \$20 range, based on \$2,520-\$2,540. and business has gone off the boil," a copper trader said. Dips below the floor were well defended today, and most

business was conducted around overnight levels. Copper stocks declined by 4.725 tonnes on Tuesday.

largely due to metal moving out of the Hamburg warehouse for end-users. Final three months business was at \$2,527, up \$4 a tonne from Monday's kerb close. Aluminium was well

defended below \$1,600 once more, but lacked the impetus to break above \$1,620. The last trade was at \$1,608 a tonne, down \$2. Stocks rose by 4,750 tonnes, a reflection of relaxed Compiled from Reuters

North Americans vie for Philippines mine

By Edward Luce in Manile

Three north American companies are vying to bid for full ownership of the 550m peso (US\$20m) North Davao Mining Corporation under the Philippine government's mine privatisation scheme.

Officials said this week that

the three companies. Phelps Dodge of the US and two Canadian groups, Placer Dome and TVI Resources, were undertaking "due diligence" reviews on the North Davao Mining claim, which has an estimated reserve of 103m tonnes of cop-

US\$33m on rehabilitation of mining facilities. TVI Resources and Echo Bav Mines, a US company, last year bought the option to the Kingking gold and copper mine from Benguet Corporation of the Philippines for \$30m. The North American companies

COMMODITIES PRICES BASE METALS__ LONDON METAL EXCHANGE E ALUMINIUM, 99.7 PURITY (S per tonné) 1609-9.5 1607-8 1814/1605 1607-08 Clase Previous High/low AM Official 1584-85 1584.5-85.5 1582.5 1582-82.5

Kerb close pen int. Total daily turn 222,537 M ALUMENIUM ALLOY (5 per ton 1985-95 1383-85 1391/1380 1350-60 Kerb close Open int. Total delily turnover # LEAD & per tonne 760-61 765-68 763/57 760-61 757-58 High/low AM Official 761-62 Total daily tumove MICKEL (5 per tonne) 8425-30 8475-80 8515/8400 8375-85 B410-15 Kerb close Open Int. Total daily tumove 9.658 III THN (5 per tonne) 6250-55 6210-20 6215-20 6285/50 6245-50 6240-60 Previous High/low AM Official R ZINC, special high grade (5 per 1063-64 1074-75 1071/59 1062-63 1059-60 Ciase Previous High/low AM Official 1041-41.5 82,193 18,356 Scopper, grade A 5 per tonne

2517-18 2562-64 2522-23 2567-68 179,438 m LME AM Official 6/5 rate: 1.5374 LME Closing £/\$ rate: 1.5410 Spot: 1.5407 3 miles: 1.5368 6 milles: 1.5342 9 milles: 1.5267 +0.15 117.90 116.25 -0.10: 117.30 115.80 -0.10 115.50 115.50

-0.70 114,60 113.30

-0.10 112.50 111.50 154

2525-26

213

PRECIOUS METALS IL LONDON BULLION MARKET (Prices supplied by N M Rothschild) \$ price 410.80-411.20 41220-41260 412.20 267.819 493.197 412.30 267.501 495.214 Day's High Day's Low 412,70-413.10

ous close 414,30-414.70 Rates (Vs USS) Locs Ldn Meen Gold Lending 6 months 3.55 575.25 582.00 587.75 373.80 379.10 383,70 394.05 600.25 Gold Coins Krugemend Maple Leaf \$ price 411-414 422-35-425.00 62-64

Precious Metals continued ■ GOLD COMEX (100 Trpy oz.: \$/troy oz.)

412.0 -1.0 415.0 419.1 101 1.089 414.6 -1.3 418.3 412.5 35,478 129,774 417.2 -1.2 418.9 415.0 2.925 32,410 419.1 -1.0 419.8 417.7 900 10,995 421.0 -0.9 419.5 419.5 18 4,243 422.9 -0.8 424.0 420.8 829 13,158 42.088 233,445 PLATIMUM NYMEX (50 Troy oz.; \$/troy oz.) 431.0 -2.0 433.0 427.5 3,180 18,199 433.2 -2.1 434.0 430.5 210 3,357 435.5 -1.9 436.0 433.5 119 1,335 437.3 -1.9 - 2 56 3,500 22,947 PALLADIUM NYMEX (100 Troy co.; S/troy cz.) 142.05 -1.75 142.50 139.50 1325 4,535 143.35 -1.86 144.00 141.25 152 2,471 144.75 -1.70 - 12 75 148.00 -1.70 - 13 57 143.25 -1.85 144.00 141.25 144.75 -1.70 - -148.00 -1.70 - -SILVER COMEX (5,000 Troy oz.; Cents/troy oz.) -3.8 582.0 572.0 16.534 64.996 -3.8 588.0 577.0 2.382 17.975 -3.8 588.0 581.5 851 8,515 -3.8 590.0 588.5 81 9,918 577.7

ENERGY 17.43 25,366 75,178 17.09 19,434 58,041 16.97 7,676 42,736 16.86 6,682 37,035 16.82 3,869 28,096 16.77 M CRUDE OIL IPE (\$/barrel)

Latest Cary's price change 16.63 +8.09 1,115 HEATING OIL WHEX (42,000 US gate; SUS gate) 50.50 22,799 34,589 48.40 7,312 15,952 51.90 49.00 48.40 7,312 15,952 46.90 2,974 10,892 -0.01 47.25 +0.14 46.50 +0.09 46.55 1,495 10,591 725 6,176 341 5,207 37,083 99,174 E GAS OIL PE (\$7000)

-0.50 146.75 145.50 252 5,000 -0.73 145.50 144.75 128 8,051 145.00 -0.75 145.25 145.25 1 4,795 2.390 2.180 20,851 29,171 2.065 1.957 5.660 18,293 1.975 1.915 3.251 17,123 1.830 1.890 1,402 11,823 2.375 +0.207

1.530 +0.043 1.530 1.510 +0.045 1.910 1.875 1,041 9,977 NYMEX (42,000 US palls; c/US palls Labort Day's change -0.06 51 50 10,897 24,591 52,75 4,060 16,625 53,55 919 8,867 53,10 427 5,127 -0.03 +0.22 53 00

52.40 57.25

٠,

+0.073

-0.080

■ WHEAT LCE (E per tonne)

125.10

111.50

Mary Jol Sep Doc Mar Total

19,609 111,126

GRAINS AND OIL SEEDS

121.15 -1.30 122.00 121.05 718 2,170 910 934 956 975 994 1014 539 118 37 119 52 1,**583** 3,619 520 163 -1.10 125.85 124.95 -0.05 112.25 111.50 ME COCCOA CSCE (10 to \$250 +4.75 524.00 517.50 12.042 40,782 498.75 +8.00 498.00 488.00 2,973 15,348 457.00 +9.00 458.00 448.00 6,725 38,966 456.00 +7.00 458.00 448.50 427 7,025 483.75 +7.00 458.00 455.50 427 7,025 483.75 +7.00 458.00 455.50 425 4,372 388.00 - 389.25 388.76 15 179 1287 1312 1332 1351 1380 1412 ■ COCOA (ICCO) (SDR's/tonne)

MAZZE CBT (5,000 bu min; cents/56tb bushet) 983.50 +2.00 983.75 389.26 37,182 189,043 367.25 +2.00 387.50 383.50 17,332 137,842 384.00 +1.75 364.25 360.75 8,879 81,975 313.25 +2.00 373.50 310.50 1,885 28,686 6,238 62,028 218 4,386 BARLEY LCE (E per tonne) 720 388 29 187 32 112.75 -1.00 173.25 112.75 114.40 -1.10 115.25 114.50 108 13 63 -0.25 110.00 109.95 ■ COFFEE 'C' CSCE (37,500lbs; cents/fbs) EL COFFEE (ICO) (US cents/pound)

M. SOYABEANS CET (5,000bu min; ceets/60th bushel) 729.25 +5.50 730.00 721.50 28,353 73,743 738.00 +5.25 738.30 730.50 7,749 38,844 743.75 +6.00 744.50 735.00 5,541 35,421 743.25 +7.75 742.50 735.00 369 3,197 724.00 +8.00 725.00 776.25 233 3,017 713.00 +8.50 714.00 703.25 6,782 40,630 24.12 +0.00 24.13 23.97 4.751 36.337 24.46 +0.01 24.48 24.33 2.090 20.428 24.94 +0.01 24.95 24.70 1,253 15,425 24.96 +0.03 24.98 24.88 14 4.044 25.15 +0.05 25.15 25.05 51 2,017 25.27 +0.02 25.30 25.15 68 1,754 1,253 15,426 14 4,044 61 2,077 68 1,754 8,384 66,565 M SOYABEAN MEAL CBT (100 tons; S/ton) 230.5 +1.5 230.7 228.2 10,786 37,470
233.8 +1.7 233.9 231.3 3,923 22,283
225.4 +2.1 235.5 232.7 1,897 18,283
236.0 +2.1 235.0 232.7 177 3,174
231.5 +1.5 231.5 229.7 382 2,589
226.1 +2.2 226.5 223.8 217 1,494
17,822 90,823 Mar May Jel Ang Sep Oct Total 17,622 90,412 # POTATOES LCE (E/tonne)

23 2 +2.5 200.0 200.0 FREIGHT (BEFFE) LCE (\$10/Index point) 1395 1376 1381 1378 1364 1377 1298 1298 1350 1330 437 478 1,379 1,457 495 34 200 71 121 413 Close 1471

PUTURES DATA

Minor Metals
European free market, from Metal Bulletin, S
per its in warehouse, unless otherwise stated
(ast week's in bracksts, where changed), Antimony 99,5%, S per tonne, 3,375-3,450 (3,2753,400), Bismeth: min. 98,99%, tonne lots 3,80-3,400, Blamette min. 98,99%, torme lots 3,80-4,15 (3,85-4,15). Cadmium: min. 99,85%, 170-180 (180-195) cents a pound. Cobast: MB line market, 99,89%, 31,25-32.00 (31,50-32.50); 99,3%, 27,80-28.30 (28,00-28.50). Mercuny: min. 98,98%, 5 per 76 ib flask, 150-170. Molybdemum: drammed molybdic codde, 4,20-4,30. Selenium: min. 99,5%, 3,70-4,00 (3,75-4,5). Tungaten ore: standard min. 65%, 5 per torne unit (100,0 WO, cdf, 50-58. Venedium: min. 99%, ctf, 2,85-3,00. Uranium: Nuexco suchande value, 10,00. SOFTS State LiveSTOCK ■ COGOA LCE (2/tonne) Sett Day's Open price change High Low Yel int

2045 1,988 15.975 1873 2,081 12.024 1820 507 4,074 1797 156 2,317 - 1,074 - 24 102

1,176

4,245 33,704

10,893 157,913

235 103 40 88 1,685 1,403 569 1,497

114.45 -1.55 120.00 114.00

113.00 ~1.50 119.40 113.00

No7 PREMEUM RAW SUGAR LCE (cents/lbs)

SUGAR "11" CSCE (112,000/bs; ceres/fbs)

COTTON NYCE (50,000lbs; cents/lbs)

399.7 +0.5 369.9 367.9 1,512 6,884 366.8 +1.9 357.0 353.5 1,248 11,634 339.3 +0.8 389.4 337.5 536 5,770 313.3 +0.8 312.9 311.2 525 3,900 304.2 +0.4 303.8 302.5 162 2,530 301.1 +0.3 300.5 300.0 71 557

12.00 -0.19 12.25 11.86 5.432 60.834 11.22 -0.09 11.32 11.08 2.878 34.291 10.41 -0.05 10.43 10.33 1.154 24.33 10.15 -0.01 10.18 10.05 622 22.664 9.97 +0.02 9.99 9.88 374 13.040 9.88 +0.04 8.88 9.87 113 1.876 10.803 15.7913

84.10 -1.76 85.70 84.00 4.133 19.112 84.76 -1.60 88.20 84.60 19.90 15.541 95.06 -1.37 86.45 85.01 1,358 10.038 80.05 -0.05 80.05 79.75 246 19.63

85.06 -1.37 85.45 85.01 1.358 10,638 80.05 -0.05 80.05 79.75 246 1.963 77.60 -0.18 77.85 77.52 219 12,485

118.45 -265 122.25 117.60 5,691 12,643 120,55 -260 123,90 119.00 2,394 5,557 122.50 -225 125,00 122.50 236 1,885

-2.25 125 90 124 00

-1,00 124,00 122.50

- 124.00 122.50

ORANGE JUICE NYCE (15,000ths; cents/ths)

I WHITE SUGAR LCE (\$/tome)

Mar Jiay Ang Oci Dec Mar Total

Jan Total

123.50

~1.25 127 50 118.75 4.248 12.778 ~1.25 124.50 116.30 2.274 9.595 ~1.95 122.50 114.25 414 3.354

+6 911 902 2,480 17,211 63 850 -0.250 64 400 63,800 6,406 12,691 64 175 -0.425 64 750 64 125 8,461 33,608 934 955 975 994 1015 62.075 -0.175 62.400 61.975 61.375 -0.075 61.525 61.300 62.400 -0.025 62.500 62.200 949 976 988 1007 265 10,502 109 35,383 820 12,627 2,101 28,838 7,916 131,110 3,418 15,985 1,492 7,901 852 7,637 665 3,992 # LIVE HOGS CME (40 0000bs; cents/lbs) 1267 2,496 24,603 1292 2,309 29,292 1316 568 10,464 1336 98 10,569 1375 237 9,538 1392 201 7,247 5,009 94,313 47.275 +0.550 47.350 46.425 3,475 3,772 48.475 +0.800 46.500 45,300 3,455 14,125 51.775 +0.650 51.800 50.775 1,175 8,763 1289 1313 1334 1353 1375 3,456 1,175 457 612 384 50.650 +0.800 50.675 49.600 PORK BELLIES CME (40,000fbs; certs/fbs)

58 325 +0.350 58.675 55.450 53.008 +0.300 53.000 -

R COPPER 1500

M CRUDE OIL FOB (per berrel/Mar) \$15,43-5.50w \$16.86-6.88 \$16.61-6.63 -9 -9 -25 -55 Gas Oil \$165-172 Heavy Fuel Oil Naphthe \$90-92 \$167-168 \$185-190 Jot fuel Dissel Pendeum Argus. Tel \$169-177 171) **35**9 **878**2 Gold (per troy oz) -3.50 -8.0 573.5c Platinum (per troy oz.)
Palladium (per troy oz.) \$139.50 Copper Lead (US prod) 41.750 Tin (Kusia Lumpur) Tin (New York) 15.72m 294.50c -0.09 Cattle (live weight)† Sheep (live weight)†‡ Pigs (live weight)† -1,22* -1,22* 131,350 109.27p Lon. day sugar (raw) Lon. day sugar (wile) \$378,2 Barley (Eng. feed) Maize (US NoS Yellow 150.52 Wheat (US Dark North Unq 104.50p 104.50p 381.0m Rubber (Mar)♥ Rubber (Apr)♥ -0.50 -0.50 -3.0

Open Interest and Volume data shown for contracts traded on COMEX, NYMEX, CST. INDICES ■ REUTER\$ (Base: 18/9/31=100)

Feb 5 month ago 2177.8 2109.8 Feb 8 2157.8 CRB Fatures (Base: 1967=100) Feb 5 Feb 2 month ago 245.84 248.30 245.92 © GSCI Spot (Base: 1970-100) Feb 2 month ago 185.44 208.89

M-LIVE CATTLE CME (40,000ths; cents/fbs) Sett Day's Open
Price change High Low Yot int

1,012 2,825 387 1,643 105 1,144 1 238 2,731 6,915 55.775 +0.725 56.050 54.250 56.250 +0.600 56.700 55.350

LONDON TRADED OPTIONS May 19 54 115 May 126 64 26 151 90 49 1700

LONDON SPOT MARKETS

Soyabeans (US) Cotton Outlook'A' index

S742.5y

+2.5 -2.5 -3.0 -4.0

Rubber (KL RSS Not)

Coconut Oil (Phill)

Palm Ot (Malay.)§

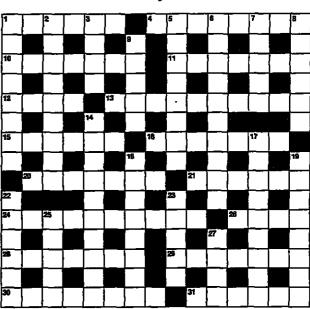
per ore. The winning bidder would also have to invest up to plan to start operations in 1997. **JOTTER PAD**

bill n Account, involve, raceipt, statement, tally. If you qualify for the 100kW market* and your electricity bill is over £12,000 pt, you may empty significant cavings by switching to an Eastern contract. Full details available on request

CROSSWORD

Talk to Eastern for a bother dead 0800 99 77 55

No.8,987 Set by CINEPHILE



ACROSS 1 Plutocrat back to do article in

paper (3,3) Copper makes a lot of trouble in paper (8) 10 Give up goldfish I found in paper (7) 11 Side effects of vulgar greeting to the refined in paper (7)
12 Island of national importance

13 Saint had a baby - spoilt part of the weekend (7,3) 15 Sign used for Greek and Russian characters? (6) 16 Supplier of bloomers for Asian primate in paper (7) 20 Revolutionary cooler warning to the Spenish in

paper (3,4) 21 Deliver a prompt for the Sappers? (6) 24 Stress it's less than 20 (10) 26 More sanctimonious bearer of load? (4)

28 Winter wear for old city firm, first in paper (3,4)
29 Commotion caused by sovereign people in paper (7) 30 First, there's nothing about doctors in paper (8)
31 Good at writing part of ciue

DOWN Last letter of "ordinal" (8) 2 Spider at an ultra gathering (9) 3 See 22

not used in paper (6)

beef in buoyant 5 Minced motion becomes buoyant ity? (4) Solution 8.986

6 Get down to brass tacks and

gobble? (4.6)
7 Ring containing nothing like

8 Solver's in set-up for satellite

9 Southernwood makes a tasty

14 Logs take up ships' tie up, with space for junk (6,4)

17 Abuse as of grace with lies?

18 Current that alternates

19 A degree of sickness got a tear, sadly (8) 22, 3 Small English flag found waving in the Indian Ocean

23 Note of collar of choirboy

27 Spoken by the moral major-

with harsh voice (5)

between metal sheets makes

cut (5)

peace (8)

(4.2.4)

CHIMED CHESTNUT
O D L 1 T 1 O
NEEDED UPPERCUT
T A V K S A K T
ROLLEDUP ALLEGE
A I N M B I D R
ROSE LENTENT
Y T F R R G L T
MINUTES SOSO
P B N S T M N G
REELIN STRANGLE
I W S P A T S T
SEIASHELL STITCH
E I E A E O E
DELUDING PROPER

11.

INTERNATIONAL CAPITAL MARKETS

Investors cautious ahead of Treasury auctions

By Martin Brice in London and Lisa Bransten in New York

European government bond markets recovered some of their poise yesterday, but investors remained cautious ahead of the big bond auctions

■ News of weak retail sales helped US Treasury prices reverse some of Monday's losses in early trading, despite uncertainty about demand at the afternoon auction of

\$18.5bn of three-year notes. Near midday, the benchmark 30-year Treasury was up 🚼 at 110% to yield 6.124 per cent, while at the short end of the maturity spectrum the two-year note was unchanged at 100% to yield 4.916 per cent. Strength among longer-term bonds led to a flattening of the

vield curve, which fell 2 basis In general, Treasury prices fall in advance of auctions as

dealers try to push up yields to make the securities more attractive to their customers. Yesterday, however, the market was cheered by a 0.3 per cent decline in chain store sales, recorded last week in the Mitsubishi-Schroder Wertheim

Also supportive to the market were signs of progress in

GOVERNMENT **BONDS**

the stalemate between President Bill Clinton and Congressional Republicans over how to balance the federal budget. On Monday, a bipartisan group of state governors proposed a plan to cut Medicaid - the federally-funded healthcare programme for the elderly that has been a key subject of wrangling in the budget battle.

The dollar also recovered from Monday's weakness, although it remained below its highs of last week. In late Mon-day trading, the US currency was changing hands for DM1.4725 and Y105.49 compared with DM1.4675 and

■ German government bonds covered some of the losses of Monday's sell-off, with the market supported by buying from Japan overnight and the US in the afternoon. However, the market still underperformed the US, with the spread over Treasuries increasing 2 basis points to 36.

The market has gone down hard that we are now getting a bit of an upwards move-ment," said Mr Karl Haeling, head of futures and options at Deutsche Morgan Grenfell in Frankfurt. He said with German unemployment statistics due for release this week, traders may have cause to cover their positions ahead of the data's release.

The curve steepened as the

of 9 basis points in two days. Mr Iain Lindsay at Crédit Lyonnais in Paris said the short end of the curve was supported by news that the French

government was to debate European monetary union in February.
On Matif, the March future settled at 122.02, up 0.12. Yields fell along the curve, with the yield on 10-year paper easing 5

basis points; on one-year

yield on two-year paper fell 1 basis point, and on the 10-year

rose 2 basis points, with the

spread between the two maturities settling at 228 basis

points. On Liffe, the March 10-

year bund future closed up 0.44

at 98.78. The yield spread of 10-year bunds over Treasuries

■ French government bonds outperformed bunds, largely on

with the spread over 10-year

bunds narrowing 5 hasis points to 39. This made a tightening

back of domestic buying,

widened 1 point to 35.

The spread between the two maturities settled at 192 points.

■ The high-yielding markets of Spain and Italy outperformed Germany, with both 10-year spreads tightening by 3 basis points, to 362 and 418, respectively. On Liffe, the March BTP future rose 0.31 to 111.7L

■ UK government bonds outperformed bunds, with the spread over 10-year paper tight-ening 2 basis points to 173. helped by manufacturing output figures that were weaker

Mr Andrew Milligan at New Japan Securities said: "This will provide further ammunition for the chancellor in seeking another rate cut, in March rather than this week."

The March future on Liffe closed at 109.01, up 0.17. The curve steepened slightly, with the two to 10 spread at around

NEW INTERNATIONAL BOND ISSUES

Swedish government bond markets enjoyed a less volatile day than Monday, although a weaker krona forced bonds down, with the spread over Germany widening 19 basis

ening moves, largely by domestic investors, on the back of hopes of further reductions in the repo rate. The recent market movements following investors' doubts on domestic economic policy and fears of a debt downgrade had been over-

expects a 25 basis point cut in the repo rate each month for the first five months of the year, settling at 7.25 per cent at year-end. However, despite the expectation of rate cuts he warned: "Risk-averse investors should stay out until at least the end of March - but for speculative investors there is a buying opportunity."

points to 274 Traders reported curve steep-

done, they said. Mr Bjorn Englund, analyst at Unibank in Copenhagen,

further M&A activity in 1996. Mr Haynes said the one-year warrants, on five capitalisa-

M&A warrants from James Capel

By Antonia Sharpe

James Capel, the stockbroking arm of HSBC Holdings, yester-day launched a series of "basket" warrants designed to give investors exposure to merger and acquisition activity in the UK stock market. The total issue is worth about £82m. Mr Alasdair Haynes, a direc-

tor in charge of global equity derivatives at James Capel, said although there had been some over-the-counter products launched in recent months. these warrants were the first listed products to offer leverage to takeover situations. With proposed bids totalling

£41bn in 1995, a record year for takeovers in the UK market, M&A activity had a big impact on portfolio performance last-year. James Capel said growing corporate cash piles and low borrowing rates would continue to provide fuel for

tion-weighted baskets repre-senting different sectors, could

be used for various investment . . .?. strategies.

For example, an investor with an underweight position in stocks seen as in takeover situations could increase his leverage by buying the war-rant rather than the stocks. The warrants could also be bought by an investor who wanted to sell the underlying stocks but not lose the eco-

nomic effect of holding them. The five baskets are: insurance, made up of Guardian Royal Exchange, Legal & General, Refuge, United Friendly and London & Manchester, banking with Abbey National Standard Chartered, Royal Rank of Scotland and Bank of Scotland; financial, including the same stocks as the insurance and banking baskets, and Mercury Asset Management: mixed, made up of Allied Domecq. Ladbrokes, Zeneca, Argyll and C&W; and utility, with Southern Electricity, London Electricity, Midlands-Elec-Water and Wessex Water.

Belgian offering breaks sovereign issue drought

By Conner Middelmann

The Kingdom of Belgium yesterday launched its longawaited \$500m offering of fiveyear bonds, the first issue by a sovereign borrower in the dollar sector targeted at institutions since Canada's global

deal last May. "People aren't usually bowled over by Belgium, but we saw good demand for the deal as investors have been starved of sovereign paper," said one dealer.

Several factors have conspired to dampen sovereign issuance in the eurobond market: lower borrowings by governments keen to cut their budget deficits; cheap funding opportunities through syndicated loans last year, and the strength of many domestic gov-

ernment bond markets, which has meant that governments have not needed to venture abroad for funds.

The pricing of Belgium's bonds, at 17 basis points over Treasuries, was deemed fair and the spread held steady

INTERNATIONAL BONDS

after the bonds were freed to trade. Lead manager Morgan Stanley reported strong sales to investors in Asia and the UK, as well as some Swiss retail demand.

Swiss retail investors were also the target of two rather more tightly-priced dollar deals: \$250m of four-year bonds for the European Investment Bank and \$250m of six-year

had not been to the dollar market since November 1994, the deal benefited from its relative rarity value in that sector, said Merrill Lynch, which led the issue with DKB. The GECC offering, meanwhile, was supported by investor demand for medium-dated corporate paper, lead manager SBC Warburg

Today, Korea's Export-Import Bank is expected to come to the market with \$500m of global 10-year bonds via Lehman Brothers and Salomon Brothers. Price talk was of a spread over Treasuries in the

Argentina, meanwhile, has appointed CS First Boston and Merrill Lynch to lead a \$1bn five-year global bond, expected next week

'									waite Nawham Pla
Borrower US DOLLARS	Amount m.	Coupon %	Price	Maturity	Fees %	Spread bp	Book runner	warrants, on five capitalisa- tion-weighted baskets repre- senting different sectors, could	tricity, Northern Ele Yorkshire Water, S Water and Wessex Wat
Kingdom of Belgium GECC European Investment Bank NGK Spark Plug Co(a) NGK Spark Plug Co(a) NGK Spark Plug Co(a)	500 250 250 200 200	5.376 5.50 5.00 3.00 2.25	99,305R 99,76R 99,20R 190,00 100,00	Feb.2001 Feb.2002 Mar.2000 Feb.2001 Feb.2000	0.25A 0.275R 0.225R 2.25 2.25	+17(5%%-01) +18(5%%-01) fizzifi) -) Morgan Startey & Co Intil) SBC Warburg DKB Inti/Mentil Lynch Normura International Yamakchi Inti(Europe)	First zloty e	eurobond
D-MARKS Westfälische Hypo(b.p.s) Allgemeine Hypothekenbank(p); Wüsternot Hypothekenbank(p);	16n 300 250	5.25 (c) (d)	99.75 100.185 100.075	Mar.2001 Feb.1999 Sep.2001	0.25 0.20 0.20	:	Bayl-typ/Cmmrz/Deutsche/DG Commerzbank Commerzbank	By Conner Middelmann The Polish zloty yesterday	do not have custodial ments in Poland and t have no access to the d
YEN EBRD+	20bn	3.18	100.20	Feb.2008	0.20		iBJ international	joined the rapidly expanding	Polish T-bill market. M
SWISS FRANCS GECC*	125	3.25	101.50	Mar.1999	1.25	-	Merrill Lynch Capital Mids	range of currencies in which borrowers can raise money in	J. P. Morgan was ta institutional investors
GUILDERS Commerzbank	300	6.50	98,60R	Mar.2006	0.4259	+50(8%-06)	ING Barings	the eurobond market. The sector was inaugurated	already active in the market, but who w
ITALIAN LIRE European Investment Bank(e) EBRO(f)	450bn 150bn	zero 9.40	39.30 101.10	Feb.2006 Mar.1999	0.50 1.25	-	Deutsche Morgan Grenfell Benco Nazionale de Lavoro	by the International Finance Corporation, the private-sector arm of the World Bank group,	extend maturities. "This deal is very along the lines of the
ECUS Bayerische Hypobanik	55	(9)	101.464	Mar.2005	2.00	-	Kredietbank Inti Group	which issued 100m zloty of two-year bonds via J.P. Mor-	long tradition in dev
CANADIAN DOLLARS Südwestdeutsche LB Cap Mits	125	6.375	98,90R	Feb.2002	0.275R	+11(7%%-01)	CIBC Wood Gundy	gan. The proceeds of the offer-	ing markets, which is
SOUTH AFRICAN RAND International Finance Corp	250	13.00	101.25	Feb.1998	1.625	-	HSBC Markets	ing were swapped into floating- rate dollars, according to the	our mandate of privat development," said M
POLISH ZLOTYS International Finance Corp(h)	100	18.50	100.00R	Mar.1998	0.50R	-	JP Morgan Securities	IFC. The bonds, which carry a	Laukkanen, senior fi officer at the IFC
Final terms, non-callable unless								coupon of 18.5 per cent, were	The coupon and prince the bonds will be paid

FT-ACTUARIES FIXED INTEREST INDICES

+0.13 +0.32 +0.47 +0.29

+0.15

123.24

2.61 3.09 2.89 2.72

123,40 149,55 164,08 187,44

Up to 5 years (22) 5-15 years (21) Over 15 years (8)

Up to 5 years (1)

which issued 100m zloty of two-year bonds via J.P. Morgan. The proceeds of the offering were swapped into floatingrate dollars, according to the

0.45 5 yrs 0.00 15 yr 1.02 20 yr: 0.00 irred.

Up to 5 yrs

0.00 0.00

The bonds, which carry a coupon of 18.5 per cent, were aimed largely at retail investors in Germany, Austria, Switzerland and the Benelux, who are keen on high coupons but

Feb 5

7.10 7.94 8.04

Yr. ago

8.46 8.37 8.34 8.41

Feb 6 Feb 5 Yr. ago

7.09 7.93 8.02

do not have custodial arrangements in Poland and therefore have no access to the domestic Polish T-bill market. Moreover, J. P. Morgan was targeting institutional investors who are already active in the T-bill market, but who want to extend maturities.

"This deal is very much along the lines of the IFC's long tradition in developing the fixed-income side of emerging markets, which is part of our mandate of private sector. development," said Ms Ritva Laukkanen, senior financial officer at the IFC.

The coupon and principal on the bonds will be paid in US dollars, as Polish foreign exchange regulations restrict the outflow of zlotys.

Feb 6 Feb 5 Yr. ago

8.48 8.49 8.49

7.16 8.03 8.11

--- Inflation 10% ----Feb 6 Feb 5 Yr. ago

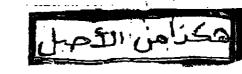
7.22 8.07 8.15

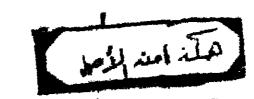
EXCHANGE COSS

Had Ballan B.

WORLD BOND PRICES **BENCHMARK GOVERNMENT BONDS** M BUND FUTURES OFTIONS (LIFFE) DM250,000 points of 100% May 0.56 0.38 0.25 0.48 0.73 1.05 10,000 6,500 6,500 8,750 8,000 7,000 7,250 6,000 8,000 10,500 4,600 4,600 6,000 8.17 6.19 6.36 7.07 7.07 5.39 6.38 7.34 10.02 1.80 2.98 5.90 9.45 9.53 INOTIONAL ITALIAN GOVT. BOND (BTP) FUTURES (LIFFE) Lira 200m 100ths of 100% Onen Sett price Change Low Est vol Open int. 111.25 111.72 +0.32 111.91 119.92 111.24 +0.32 111.30 49878 433 111.08 61367 II ITALIAN GOVT. BOND (BTP) FUTURES OPTIONS (LIFFE) Lira200m 100ths of 100% 8.36 6.76 7.43 7.59 5.62 6.04 6.81 Price 11150 65,428 4 Jun UK Treasury Bills and Bond Yalds 5 25 Two year 5 .09 Three year 4.99 Per year 4.97 10-pear 4.88 30-pear 4.93 5.04 5.29 5.67 8.13 ■ NOTIONAL UK GILT FUTURES (LIFFE)* \$50,000 32nds of 100% High 109-04 108-05 Low **BOND FUTURES AND OPTIONS** ECU SOND PUTURES (MATIF) ECU100,000 Change +0.24 +0.22 +0.20 121.84 122.30 120.78 165,807 579 17 High 90,98 Low LONG TERM FRENCH BOND OPTIONS (MATIF) ■ US TREASURY BOND FUTURES (CBT) \$100,000 32nds of 100% Change +0-06 +0-06 +0-07 Close Est. voi Open int. - -1824 392 96.33 97.60 237533 3885 238493 13713 0 UK GILTS PRICES | Shurter | Chres up to Pive Yearry | | 15-ight | 1998tt | 14 50 | Each 13-ight | 1998tt | 13 00 | Carnessian 10pt | 1997tt | 12.42 | Each 10-ight | 1997tt | 12.42 | Each 10-ight | 1997tt | 10.05 | Fress Car y 7pt 1997tt | 8.91 | Fress Car y 7pt 1997tt | 8.91 | Fress Car y 7pt 1997tt | 8.92 | Each 15ge 1997t | 13.14 | 9-lape 1998tt | 7.18 | Treas 7-ight | 1998tt | 7.18 | Treas 7-ight | 1998tt | 12.76 | Each 12pt | 1998tt | 12.76 | Each 12pt | 1998tt | 10.57 | Treas 9-ight | 1999tt | 10.67 | Treas 1998tt | 10.67 | Treas 1999tt | 10.67 | Treas 1990tt | 12.08 7.86 1053 7.58 9831 7.73 100¹2 7.81 1013 7.51 122⁵2 7.77 105⁵2 7.82 109⁵2 7.82 109⁵2 7.87 101⁵2 7.96 85⁵2 +3 1093 975 +3 1093 943 +3 1094 925 +4 1094 925 +4 1095 975 +3 1394 1395 +4 1095 975 +4 1394 1015 +4 1042 945 +5 85, 785 8.04 7 \$0 7 74 7.89 9.56 8.06 9.96 8.23 7.92 7.33 6.08 102.3 6.16 10113 5.91 103 5.93 1042 6.05 107.3 4 6.05 107.3 4 6.08 107.3 4 6.08 107.3 1013 6.08 107.3 1013 6.51 1213 6.57 1123 102点 101旗 108点 104点 97点 100点 112点 96数 102点 103点 105点 105点 105点 1053 117 114点 Over Fifteen Years Conv Spc La 2011 ##____ Treas Spc 2012## ____ Treas 5½pc 2006-12## _ Ower Rithees Years 8.25 Come Spx La 2011 ‡‡ 8.25 Tress Spc 2012‡‡ 8.23 Tress Spc 2000+12‡ 8.65 Tress Spc 2003‡‡ 7.89 7-4 pc 2012-15‡‡ 7.91 Spc 2005 7.99 Tress Spc 2017‡‡ 8.16 Each 12pc 2013-17 8.79 +½ 112% 101% +¾ 113% 102½ +½ 82% 72% +% 103% 88% +% 104% 88% +% 104% 88% +% 111% 100% +% 141% 127% 7.97 109% 7.97 109% 7.70 80% 7.98 100% 7.98 97% 7.98 100% 8.04 107% 8.09 135% ### Asian Dev 104.pc 2009 | #### The property of the property 8.16 115.7 8.70 12432 - 1054 - 1074 9.13 14762 - 13374 - 43 8.57 12112 7.65 7443 4.82 13814 - 12312 - 12312 7 | 1 | 14 | 1474 | 147 | 120 128 106 1044 111% 15413 1361₂ 41 35 1241₂ 76 1431₂ 1405₁ 1361₂ 10612 97 10012 107 13813 13612 33 374 11312 4912 13012 11312 +& 114 +& 101& +& 101& +& 114\frac{1}{2} +& 117\frac{1}{2} +\frac{1}{2} 117\frac{1}{2} +\frac{1}{2} 114\frac{1}{2} +\frac{1}{2} 14\frac{1}{2} +\frac{1}{2} 14\frac{1}{2} +\frac{1}{2} 14\frac{1}{2} 112 994 1124 1032 1144 1177 814 1110 943 1118 1284 8.25 8.05 5.80 8.12 8.00 8.15 501) 45;} 62;4 38;} 32;} 32;}

													•
FT FIXED IN				_			GILT	r EDG	ÆD	AC	TIVITY INDICES		:
						31 Yrago High Low					Feb 5 Feb 2	Feb 1 Jan S	
iovi. Secs. (UK) ixed interest	112.81 113	3,43 1	94.88 13.88	113.8	5 114	07 109.74 115.23 108.77	5-day	iged ba average			176.5 91,5 110.4 106.0	86.2 138, 107.2 108,	A 076
tor 1995/96. Governme	nt Securities	high sin	ce como	dation;	127,40	19/1/35), low 49.18 (3/1/75). Fixed inter	est high	SHICE CO.	replization	r. 133J	17 (21/1/94) , low 50.53 (3/1/7)	5) . Basis 100: Gove	mmeni Securities 15/
0/26 and Fixed Interes	# 1628LSE 8	ESPAIN R	NOOS A	rasini.	1974.	•							
FT/ISMA INT	ERNAT	ION	AL BO	ЖD	SEF	RVICE							
isted are the latest inte	emational bon	ds for w	hich the	re is ar	aciequ	ste secondary market. Latest prices a	t 7:05 pr	m on Feb	ruary 6	3			
	Issued	8id	Offer	Chg.	Yleid	Sequed	Bld	Offer	Chg.	Yield		based Sid	Other Chg. Yield
.S. DOLLAR STRAIGHT bbey Nati Treasury 5 97						Sweden 8 97 2500	0 106%	10678	ᆛ	3.91	Abbey Nati Treasury 8 03 £	1000 100½	1003 _B + ¹ _E 7.95
bbey Ned Treasury 61 ₂ 0	1000	102%	100 1025	ᄲ	5.13 6.08	United Kingdom 7 ¹ g 97	0 103%		_l ₂	3.76 6.38	Alience Leics 11 g 97 £ British Land 8 g 23 £	100 105-li 150 91-li	106 ¹ 4 6.41 91 ¹ 4 +4 1004
BN Armio Blank 74,06 _	1000	106%	10734	والب	6.36	World Bank 0 15 2000 World Bank 5 2 07 3000	29	25%	ي _ة د	6.36	Denmark 6% 98 £	800 10n	1004 6.73
hican Dev Bk 7½ 23 bene Province 7½ 98	1000	1057	1055g 1061a	1-5	<i>6.8</i> 7 5.26	NOTO BEEN 5% UJ	3 29/4	20 	4	5.99	Hodisox 10 ³ a 97 £	1000 101 ⁷ 2	1015 4 7.71
aen Dev Benk 6 ¹ 4 05 _ ustna 8 ¹ 2 00	750	102 ¹	1023	4 ¹ 6	6.05	SWISS FRANC STRAIGHTS							1043 ₈ , 6.39 1054 6.81
aden-Wuent L-Fin 6 ¹ 6 O	400 01000	109	1105g 1094	护	5.52 5.54	Asian Dev Bank 0 18	1 1015		-4년 -1	5.46 3.25	HSBC Holdings 11.69 02 E	153 1164	176% +4 8.32
ark Ned Gemeengen 7 9	9 1000	105	1051		5.40	Council Europe 41k 98 250	103	10418	-3	282	Japan Dev Br: 700 €	200 993	1121 ₂ +1 ₆ 9.12 995 ₄ +1 ₆ 7.15
eyer Vereinstik 8½ 00 <u> </u>	500 1000	1084, 97	109 974	44	5.61 5.99	Denmark 44, 99 1000 68 34, 99 1000) 1037g) 1025g	103% 102%	-1 -3 ₈	3.11 2.82	Land Secs 9½ 07 Σ	200 106	105% +8 8.77
lgitum 5½ 03	150	1025	1027		5.18	58 64 04 300	1123	•	4	4.91	Ontario 11 ¹ g 01 S	100 114 250 104	114 ³ 8 + ¹ 8 7.85
tish Columbia 7 ¹ 4, 02 _ lish Gas 0 21	500	109%	1 10 ¹ 2 15 ¹ 8	₽ ³ g	5.86 7.75	Finland 7 ¹ 4 99	11212		ولـ	3.55	Powergen 8% 03 £ Severn Trent 1112 99 £		112 ¹ 2 + 7.30
mada 642 97	2000	10174	102	_	5.07	Inter Arter Day 43s, 03	10212		+3 ₄ -1 ₂	4 02 4 35	Tokyo Bec Power 11 (7) £ TCNZ Pin 94 (2) NZS	150 114¼ ·	114 ⁵ g + I ₂ 7.53 109 ³ s 7.54
eung Kong Fin \$1 ₂ 98 . Ina 61 ₂ 04	500	و ^{د 97}	864	ᆲ	649	Ontario 6 ¹ 4 03 400 Quebec Hydro 5 08 100	1		_		TCNZ An 9 ¹ 4 02 NZ\$ World Bank 12 ¹ 2 97 NZ\$	250 1063g	106% 7.97
edit Forces 9 ¹ 2 29	300	1114	89 1115a	ولو	690 5.39	SNCF 7 04 450	117 ¹ 2	100 117 ¹ 2	_12	506 451	Credit Local 6 01 FFr Bec de France 84, 22 FFr	— 7000 gg1j	997 -4 6.05
rmark 5½ 96st St Japan Raiway 6½ 04	1000	1013	7015 <u>a</u>	.1	5.03	Sweden 44 03 500	101	101	-14	4.59	SNCF 94, 97 FFF		115½ -¾ 7,42 105¼ 4,77
1604	500	102% 100%	103 ¹ 2	ᆥ	6.16 5.98	World Bank 0 27	25	25 ¹ 2 115	-1 -3	5.52 3.91	FLOATING RATE NOTES		
194 97	1000	1057	1071	•	5.08		114	113	-4	2.91	HUMING HAIL NOTES	leasued (3d	Offer C.com
c de France 9 98 Im Bank Japan 8 02 _			107% 111%	ᄱ	5.20 5.78	YEN STRAIGHTS Selvium 5 99 30000	4451-	717 %			Abbey Nati Treasury -1, 99 -		
nort Day Com 91, 98	150	1001	109		5.32	Belgium 5 99 75000 Credit Fonder 4½ 02 75000	1013	102	႕	1.98 4.43	Bankamerica 1, 99	750 00.66	99.90 5,7500 99.84 5,9975
d Home Loan 7 ¹ 99 derai Nati Mort 7,40 04 .	1500	1054, 1085,	106 109%	ᄺ	5.35 6.02	Ex-fm Bank Japan 4% 03 100000	1172-	1177	4	210	Belgium & 97 DM Cernada -14 99		100.15 4.4375
land 64, 97	3000	103	1031	••	5.04	Inter Amer Day 71, 00	1205.	109 120%	구. 구.	3.07 2.15	COCE 0 06 Ecu Commercials O/S Fin -1 ₉ 98	2000	99.58 5.6250 99.59 5.2612
rd Motor Credit 64, 98 i Bk Japan Fin 77, 97 _	1500 200	101% 1031	1024g 103		5.34 5.41	Esky 3½ 01 300000 Japan Dev Bk 5 99 100000	104	10418	٠	271	Commercials O/S Fin -1 98 _	750 99.74	99.81 5
Finance 5 ¹ , 98 er-Amer Dev 7 ¹ 2 05	650	997	1001 ₈		529	_taper Dev Sk 642 01 120000	1304	11114 1201 ₂	-ia	1.82 2.58	Credit Lyonnais 1: 00	300	98-30 5.5000 100.13 5.7414
ar-Amer Dev 7½ ()5 1 Finance 5¼ 99	500 500	1095g	109% 100%	4	6.09 5.15	Norway 5 ¹ g 97 150000 SNCF 6 ³ 4 00 30000	104	10479	-	0.70	Denmark 4 87	1000 100.00	100.05 5.6975
y 6 03	2000	981/2	991,	ᄣ	6.17	Spain 5 4, 02 125000	118 11 6 15	1184 1164	ᆤ	2.09 2.78	Famo del Stat O 10 07	#30 400 co	100.12 3.4688 100.22 5.7500
y 6% 23 xan Dev Bk 6% (1)	3500	96 ¹ 2	98% 111%	44	7.30 5.68	Spain 5 ¹ 4, 02	1064	105%	-	1.1B	Finland 0 97 Finland -1 ₈ 99 M Bork Ind 1 ₄ 99	1000 100.15	100,21 5,4492
rea (Bec Power 64: 03 _	1350	99°	1004	44	5.52	WORD SHIRK 34 IZ 250000	1145	1143	-1	2.65	Mi Bank Ind 1/4 99	1500 99.77 500 100.14	99.84 5.1875 100.24 6.1250
teushita Bloc 74, 02 rway 74, 97	1000	1071	107½ 1025a		6.00 5 12	OTHER STRAIGHTS		_			kaly 1, 99	1500 99.90	99.97 5.5025
tario 73 ₈ 03	3000	108	108 ¹ 4	چاپ	6.04	Finland 8 04 LFr 5000 Gentinance Lux 9 ¹ g 99 LFr 1000	107 108 ¹ 5	108		6.09 6.09	LKB Badan-Wkent Fin Ja Ok	1000 0000	100.15 5.9375 99.90 5.6875
ler Konkrollbank (B ¹ 2 (Tr.) Ausel São (19	200	1124	1125g 995g	44	6.68 6.02	WG Daut Industrik 812 03 LFr 3000	107	108		7.18	Licheda Barak Pero S 0.10	800 84.05	83.00 5.9855
abac Hydro 9% 98	150	1094	1104	7	5.60	ABN Armo 65 00 FI	1053-	105 ¹ 4 105 ² 2	-1 -3	5.25 6.02	Malaysia 16 05 New Zealand J ₁ 99	650 99.45 1000 99.89	99.65 6.0000 99.96 5.4805
rtugal 5½ 03 ebac Hydro 9½ 98 ebac Prov 9 98 5 10 99 CF 9½ 98	200 200	106%	107 ¹ 4 112 ¹ 4	4,	5.53 5.70	Bell Canada 10 ⁵ s 99 CS 150 British Columbia 7 ³ s 03 CS 1250	1124	112%	ı,	5.47	NOVE SCORE & 99	500 000	99.96 5.4905 100.08 6.0825
CF 9 ¹ 2 98	150	109 ¹	1094	-	5.30	Canada Milig & Hisg 84 99 CS _ 1000	1065	104 107		721 621	Ontario () 98	2000 99.88 500 99.77	99.94 5.8750 99.86 5.6250
MA 645 982	1500	103 ¹ 2 103 ² 2	1035g 1037g	-ig	5.44 5.95	E8 10 ¹ 1 98 C3 130 Elec de Franca 9 ¹ 4 99 CS 275	4005	109 ³ 8	4	5.63	SIEED LOK VICTORIA (105 DA	125 00.00	100.21 5.6572
eden 6 ⁵ 2 (23 messee Valley 6 (10 ,	1000	1024	1023	4		KIW Int Fin 10 01 CS 400	111 1135a	111½ 1144	ولب ولب	6.21 6.74	Sweden 0 98 Sweden -1 ₈ 01	1500 100,03 2000 99,66	100.08 5.8750 98.71 5.7500
nessee Valley 6½ 05 go Sec Power 6½ 03	2000	103 100%	103 ¹ 4 100%	+4	6.04	Neppon Tel Tel 10½ 99 CS 2011	1125-	113	e la	6.30		- 5000 AND	98.7 5.7500
ota Motor 5% 98 ad Kingdom 74 02	1500	1017	10112	•	5.04	Ontario 6 03 CS 1500 Ontario Hydro 107, 89 CS 500	1044 113	105 113 ³ 5		7.26 6.19	CONVERTIBLE BONDS	Comy.	
ted Kingdom 74, 02 rid Bank 63 ₈ 05	3000 1500	108 ¹ e 103 ³ e	108 ¹ 8 103 ¹ 2	4	5.77	[Star Kontrollerer (OL DD CC +466	aant.	1124	냷	6.20		sound Price E	id Offer Press.
fd Bank 8³g 99	1500		11012	7	5.28	Ouebec Hydro 7 04 CS 1000 Ouebec Prov 10 ¹ / ₂ 98 CS 200	95 110%	964 1114		7.80 616	Chubb Capital 6 98	250 86 114	¹ 2 115 ¹ 2 -0.79
nto Bank 8 4 97	1500	104	1041		4.92	Council Europe 9 01 Ecu 1100 Credit Fonder 8 8 04 Ecu 1000		11212	-Je	641	Gold Kalgoorie 71 ₂ 00 Grand Metropolitan 61 ₂ 00	- 65 1.37 124	12512 #1.24
ITSCHE MARK STRAI						THE STREET AND THE ST	1101	985 ₈ 110 ¹ 2		8.70 6.41	Honson 91 ₂ 06 £	500 248 100	र्ने 1134, +17.10 र्ने 1014, ±29.64
nta 6½ 24	95 2000	92½ 103%	92 ¹ 3 104 ¹ 8	4	468	BB 10 97 Fee 1000	100% 1056	101	ᆧ				4 88% +83.75
it Fancier 7 la 03	3000	07L	97 ¹ 2	4	7.77	Ferro del Stat 10% RR For	1005.	105 ⁵ 8 109			1400 380 N D C		1, 881, -12.40 86 1001, +6.39
mark 54e 98	2000 1500	7044 100½	10년년 100년	ᅽ	4 fF	ksly 10k 00 Ecz 1000 United Kingdom 9 ¹ 8 01 Ecu 2750	4447	116	_	6.19	Masu Bank 25 m	-90° 5.84 90°	h 915
- 11 BROWS	2000	108	106%	+4	641	ADC 10 99 AS	usel.	113 106¾					47 <u>8.92 چ</u> 1001 چ
lche Bk Pn 가고 CS		102	105 ¹ 4	-3,	5/18 5.12	Commo Elik Australia 13-k 99 AS 100 138 7-k 99 AS 350	117¾ 102	118 ¹ 4 102 ¹ 2	_		Nati Power 64 08 C Ogden 6 02 Fernaci 44 03	980 Atm	1 108 k 1254
iche Bk Fin 7½ 03 6½ 00 6½ 00	1500	104la	100-4				102	105.3	-14	7.21	D		
Ache Bk Fin 7½ 03 6½ 00 6½ 00 and 7½ 00	3000	108%	104 ³ 8 108 ⁵ 8	-	5 12	NSW Treasury Zero 0 20 AS 1000	13 ¹ 8	13 ⁵ 3	ر ړله	853	See: 204 F	500 58,6097 1023	4 103 4 +1565
cia Finance 6½ (33	3000 5000	105% 105%	106 ⁵ g 106	-	5 12	NSW Trazsury Zero 0 20 AS	13 ¹ 2 97 ¹ 8 1041-	135 ₃ 97 ¹ 2 1045-	-	8.27	Summorno Bank 34, 04	250 78 95 300 98080 est	964 +83.27
Alche Bk Fin 7½ 03 6½ 00 6½ 00	3000 5000	105% 105%	1085	-	5.12 4.14 6.88 4.10	R 5 Bank 74, 03 A\$ 125 State 9k NSW 9 02 A\$ 300 Sth Aust Govt Rn 9 02 A\$ 150	13 ¹ 6 97 ¹ 9 104 ¹ 2 703 ¹ 4 108	1942	+,6	8.27 8.15	Sumitorio 84 (3) Sumitorio Bank 31 ₈ 06 Sun Alionos 71 ₄ 08 5 Transatanto Hidgo 51 ₂ 09 5	230 78 95 ⁵ 300 3608.9 87 ⁴	1 961 +63.27 1 861 +28.83 1 1051 +9.36





EMU fallout boosts sterling to four month high

r vendig integrate

maile su pusi

an interest and in

could also be an interest to the underlies are the coulding the couldi

At ber Katora

Tyren. Row

is the new

the nor

Com Electricity La

Andlands Ca

Electronic Southern

and the same

Committee document

The Mark

17.5 1. 1.25 1.280E

: Liveurs by 2

小土生物 电流

D to decemp

2 1. 10% s G+ 23 🗪

A Section of the Control of the Cont

water in the second

Description of the State

in some himse

TAR DOWN THESE

9400 9425

Therese, Water

bond

Sterling railied to a four month high against the D-Mark yesterday despite evidence of general weakness in the UK manufacturing sector which could herald a further fall in interest

The pound's surprising simultaneous rise against both the D-Mark and dollar appeared to reflect disenchantment with the prospects for other leading currencies rather than any particularly positive view of sterling. It finished in London at DM2.2671, from DM2.252, and at \$1.5404, from \$1.5327.

The dollar had a steadier day after the shake-out on Monday, finishing firmer against both the D-Mark and the yen. It closed at DM1.4718, from DM1.4693, and at Y105.57, from

Sentiment was buoyed by the expectation that there would be healthy Japanese participation in the quarterly US

(FI)

(PS) (CS) (PSO) (S)

2.1176

162,615 3,9179 2,2778

15.9428 46.6110 8.7731

+0.0578 693 - 768 +0.0492 725 - 863 +0.0419 877 - 931

+0.0076 398 - 404 +0.0075 062 - 072 +0.0075 169 - 163 +0.148 737 - 237

+1.497 527 - 703 +0.0158 185 - 183 +0.0147 762 - 783 +0.0586 397 - 990 +0.0287 760 - 782 +0.0212 777 - 799 +0.0284 114 - 155 +5.18 743 - 797 +0.2217 142 - 341

Europe Austria Belgium Denmeri

Treasury refunding auction is certainly the beneficiary at the moment of the govern-

The release today of the November trade data could also help the dollar, because these should remind the market of the steady improvement in the US's trade performance, evident in recent months. European currencies were

fairly stable against the D-Mark, with the exception of the Swedish krona which continued its recent fall from grace. It closed at its lowest level in over three months at SKr4.768 against the D-Mark, from SKr4.729.

■ With sterling so long dogged by "political uncertainty", analysts have a hard time saying the UK currency is being seen as a political safe haven. But it

ed in New Yor	<u>k</u>
Latest	Prov. close
1.5400	1.5400
1.5389	1.5389
1 5366	1.5366
1.5248	1.5242
	1.5400 1.5389 1.5366

46,6494, 46,2530

8.7768 8.7242 7.0060 6.9240

7,7953 7,7498 2,2586 2,2538

1.5079 1.5022

2.1217 2.1121 11.5413 11.4083 1.5418 1.5352

162.500 161.520 3.9196 3.9063 2.2782 2.2707 40.1578 40.2842 5.7824 5.7579 2.1804 2.1715 5.6160 5.6835 1196.75 1783.77

ment's ambivalent stance towards Europe.

Mr Tony Norfield, UK treasury economist at ABN AMRO in London, said that there was less policy panie in the UK than in many other European countries which had placed themselves within the straitjacket imposed by the Maas-

tricht convergence criteria. He said sterling's strength could also be explained by the fact that there had not been any EMU premium to be unwound, and the perception that it would not be "besmirched" by participation in the European single cur-

rency, which the UK is not committed to joining.

Mr Norfield said markets were rife with exaggerated fears about what could happen in the future. "The market is still extremely nervous, that 1996 might be the equivalent of the beginning of 1994 - where the initial trends blew up in

Three months Rate 9-PA

46,276 8,7349 6,9669 7,758

192.338 -2.6 195.563 -2.3

83.6

137.7

2.116 0.9 2.1129 0.9 2.1014 0.8

1.2 0.9668 -3.4 2443.87

46.501 2.8 8.7804 1.7 6.975 0.8 7.779 1.8 2.2622 2.6

10.8143 -0.2 1.844 4.4

points higher at 91,15.

CURRENCIES AND MONEY

your face after the first few

Sterling's rally came despite the weak manufacturing data, which encouraged speculation that a further cut in interest rates may be on the agenda at the monthly monetary meeting today between the governor of the Bank of England and the Chancellor of the Exchequer. The June short sterling contract finished seven basis

■ The main moves in currency markets at present are being driven by the combination of concerns about the European single currency project, and growth prospects in the US and

Mr Joe Prendergast, currency strategist at Merrill Lynch in London, said that the dollar historically tracked shifts in interest rate expectations, rather than actual moves in rates. He highlighted the very bearish move in German interest rate expectations following the deep easing of the nast few weeks.

The spread between the June 96 and June 97 euromark con-tracts has widened from 50 basis points in mid-January, to around 110 basis points now. This has come from a fall in the longer dated contract, with the June 96 contract broadly

Mr Prendergast said this

10 3525 10 3125 10 3341 30 2800 20 1050 30 21 5.970 5 6718 5.9913 4 5465 4 5036 5 5056

30,2600 30,1050 1,6489 1,6422 6 4505 6,4080 152 900 152 380 124,220 125,850

7 0245 6 9213 1 2020 1,1950 1,5418 1,5352 1,2500 1,2454

1,0000 0,9998 0,9783 0,9780 1,3795 1,3743

1,3254 1 3245 7,7320 7.7310

3.1965 3.1263 105.610 105.000 1 2.5465 2.5418 1.4795 1.4778 26.1580 26.1280 3.7506 3.7504 1.4150 1.4130 3.6450 3.6418 778.300 777.500 27.4790 27.4500 25.2890 25.2400

- 998 - 999 - 780 - 783 -0.002 745 - 750 +0.08 500 - 800

+0.0018 245 - 254 +0.0005 310 - 320 -0.2 500 - 500 +0.001 271 - 319

+0.0005 310 - 320 -0.2 500 - 500 +0.001 271 - 319 +0.45 630 - 610 -0.0025 430 - 690 -0.0027 280 - 580 - 504 - 506 +0.0003 140 - 506 +0.0003 435 - 450 -0.5 500 - 600 +0.00075 750 - 790 -0.025 400 - 500

(Sh) 3.12ac (Y) 105.570 (MS) 2.5435 (NZS) 1.4786 (Peso) 26.1430 (SR) 3.7505 (SS) 1.4145 (RI) 3.6443 (NCH) 777.550 (TS) 27.4770 (BI) 25.2450

reversal of expectations was likely to keep the dollar's tone damp in the short term.

m The release today of the latest gold and foreign exchange reserve figures in South Africa will be closely watched. The country has recently enjoyed large capital inflows, and evidence that this trend continues of an early relaxation of exchange control. Mr Chris Stals, governor of the Reserve Bank, has recently hinted that the present climate favours a relaxation of control measures.

The rand finished at R3.644 against the dollar, almost exactly the level at which it stood when the currency was unified last March.

Feb ii	٤	\$
Creco iop	41.6157 - 41.5486	27,0240 - 27,0340
Hardan.		141 360 - 141 110
		300C5C - 300C50
-63	C 4006 - 1400 9	
Polynd	39078 - 350 <u>62</u>	2535 - 253
وحجيها	728087 - 723314	4726 00 - 4729 00
u A.E.	56563 - 56586	35727 - 35730

February 6	Over	One	Three	Six	One	Lomb.	Das.	Repo
	night	month	mthe	mitre.	year	riter	rate	(SCO
Selghum	35	31	33	32	35	760	3.00	-
Week ago	32	38	33	33	33	7.00	3.00	_
France	44	42	43	4	4%	4.05	_	5 60
Wask ago	4	4 11	416	4.	437	4.20	_	5.60
Germany	315	32	3%	34	312	5.00	3.00	3.30
week ago	32	35	3;;	3.	34	5 00	300	3 55
tretand	5	5	5%	5%	512	-	_	6.25
waak ago	51	5	54	514	5%	-	_	6.25
ltaly .	9%	92	92	93	91	-	9.00	9.72
week ago	10	92	9%	97	877	-	9.00	9.96
Netherlands	31	3	31	3	32	_	3.00	3.30
week ago	34	3.	34	3.	3.1	-	3 00	3.30
Switzerland	1%	12	1%	12	37	5.00	1.50	-
week ago	1%	12	1*	13	14	5.00	1.50	-
US	5%	514	54	516	5	-	5.00	
week 800	5!5	51-	5%	576	5,,	-	5.25	-
Jepan	è	33	*	2	3	_	0.50	-
week ago	Ē	u	15	3	夏	-	0.50	
S LIBOR FT Lo	ndon							
Interbenk Fizing	-	5%	54	54	54	-	-	-
week bộc	-	5%	52	5-1	5,	-	-	-
US Dollar CDs	-	5.10	5.03	4.95	4 84	_	_	
week ago	-	5.10	5.19	5,12	4.99	-	_	_
ECU Linked Ds	-	41	43	4	416	-	-	_
week ago	-	445	42	47-	43	-	-	-
SDR Linked De	-	33	34	3 <u>.;</u> 3 <u>;;</u>	32	-	-	_
week 390	-	31	32	3;;	35	-	-	-
S LIBOR Imerbank five	ng radya a	Details on	rates for \$	10m quar	ed to the	market by	four leten	ence ba
et 11gm each worken	Tien to	se beater	ere: Rank	NEW Trans.	Rank of	Tolom Pa	and the same	et Note

EURO CURRENCY INTEREST RATES								
Feb 5	Short term	7 days	One month	Three months	Sox months	One year		
						219 - 314 412 - 414 314 - 314 314 - 314 413 - 9 614 - 516 614 - 516 214 - 516 514 - 516 516 - 51		
	Open Sett	price Char	nge High	Low	Est. vol	Open rit		
Mar.	95.46 95		03 95.50		25,997	50,866		
		66 +0.6			9,168	53.789		
Sep	es.65 95	.0+ 28	02 95.70	95.66	5,105	44,033		

Est voi Open int. 20969 37135 173133 ME MONTH EUROLINA PUTURES (LIFFE) L1000m points of 100% +0.02 +0.05 +0.04 +0.04 91.41 EE MONTH EURO SWISS FRANC FUTURES (LIFFE) SFrim points of 100% 98.11 97.94 +0.09 98.13 97,99

HONTH ECU FUTURES (LIFFE) Sculm points of 100%

Change

Sep 1.22 1.03 - 0.85 0.22 0.12

High

Low

CROSS RATES AND DERIVATIVES 23.19 3.971 12.32 2.110 13.88 2.376 4.768 0.816 11.16 1.910 0.446 0.076 4.258 0.736 4.592 0.736 5.857 0.969 10 1.712 5.840 1 10.81 1.851 5.118 0.878 7.019 1.202 6.648 1.138 8.753 1.499 4,864 2,079 2,584 1,105 2,810 1,244 1 0,427 2,340 1 0,094 0,040 0,893 0,382 2,289 0,978 0,963 0,412 1,198 0,507 2,097 0,896 1,225 0,524 2,267 0,969 1,073 0,459 1,472 0,629 1,394 0,596 1,836 0,785 dish Kornor par 10; 8 5.447 21.23 2.894 11.29 3.258 12.71 1.120 4.389 2.620 10.22 0.105 0.408 1 3.901 2.564 10 1.079 4.207 1.329 5.183 2.349 9.162 1.372 5.351 2.539 9.904 1.202 4.689 1.549 6.491 1.562 6.081 2.058 8.019 505.0 268.3 302.2 103.8 9.715 92.71 237.7 100. 129.2 217.8 127.2 217.8 111.5 152.9 144.8 190.6 410.0 217.8 245.3 84.30 197.2 7.887 75.27 193.0 81.18 103.2 191.1 90.48 124.1 117.5 154.7 2.145 1.140 1.284 0.441 1.032 0.041 0.394 1.010 0.425 0.523 0.925 0.523 0.925 0.473 0.649 0.815 2.650 1.408 1.585 0.545 1.275 0.408 1.247 0.525 0.646 1.142 0.567 1.235 0.585 0.585 16.71 8.880 10 3.436 8.039 0.322 3.068 7.866 3.308 4.076 4.209 7.790 3.688 5.058 4.797 6.308 5198 2782 3110 1088 2501 100. 954.3 2446 1028 1268 1281 1309 2423 1147 1573 1480 1962 Change -0.0018 -0.0021 High 0.9659 0.9657 Letest 0,9559 0,9565 0,9790 Low 0,9525 0,9637 73.059 5,092 738

High 0.6827 0.6858 Latest Change 80,075 3,597 1,403 -0.0021 -0.0010 249 23 # STERLING PUTURES (IMM) 262,500 per \$ SURSS FRANC FUTURES (IMM) SFr 125,000 per SFr 0.8357 -0.0036 0.8383 0.8357 0.8428 -0.0030 0.8450 0.8428 UK INTEREST RATES LONDON MONEY RATES

Interbank Sterling Sterling CDs Tressury Bills Bank Bills Local authority deps. Discount Market deps Up to 1 1-3 month month Certs of 75x dep. (£100,000) 512 Lerna os 7(p. 049). (£100,000) 2 2/ppc. Depoiss withdrawn for cash 14,00c.
Certs of Tax dep. under £100,000 is 2/ppc. Depoiss withdrawn for cash 14,00c.
Ave. bander rate of discount 5,96850s. £000 food cate 35tp. £0,001 Financa. Miles up1996. Agreed rate for period Feb 25, 1996 to Mer 25, 1996, Schemes 18 at 7.58pc. Reperiod Que 20, 1986 to Jan 21, 1996, Schemes 19 at 9 8.440pc. Finance House State R.
Fabrushy 1, 1996 E THREE MONTH STERLING FUTURES (LIFFE) 2500,000 points of 100% High 93.93 94.17 94.16 93.92 83.52 Sett price Change 83238 79696 63180 93,88 94,08 94,03 93,82 93,54 8193 21829 14267 7072 2978 +0.05 +0.07 +0.10 +0.10 +0.08 93.92 94.15 94.13 93.91 93.60 94,08 94,03 83,82 E SHORT STERLING OPTIONS (LIFFE) 2500,000 points of 100% Sap 0.17 0.26 0.37 0.08 0.12 0.24

BASE LENDING RATES Adam & Company 625
Allied Triust Bank 625
Allied Triust Bank 625
Allied Triust Bank 625
Allied Triust Bank 625
Bank of Banoda 625
Bank of Banoda 625
Bank of Banoda 625
Bank of Banoda 625
Bank of Inlied 625
Bank of Inlied 625
Bank of Inlied 625
Bank of Inlied 625
Bank of Scalland 62 United Bank of Kuwak. 6.25 Linky Trant Bank Pt. 5.25 Westorn Trant. 6.25 Whitebady Laidear 6.25 Yorkshire Bank. 6.25

EMS EUROPEAN CURRENCY UNIT RATES 182,493 2,15214 39,3960 13,4363 1,91007 195,792 7,28580 6,40608 0,792214 158.368 2.11803 38.8516 13.2858 1.88952 196.296 7.31111 6.49620 0.811010 +0.0018 +0.0015 -0.0004 +0.0019 +0.047 +0.00237 -0.00285 -0.000784 -4.26 6.58 -3.75 +0.11 +7.08 -0.00132 6,93 -3,95 6,36 292.887 2106.15

Strike Price 1.500 1.510 1.520 1.530 1.540 0,31 0.48 0.72 1.06 1,49 2.05 0.73 0.98 1.31 1.60 2.07 2.57 E MONTH EURODOLLAR (BAM) \$1m points of 100% 94.80 95.18 94.82 95.17 95.31 94,80 95,14 34,830 80,611 94,80 -0.61 410,065 444,138 Mar Jun Sep 95,15 95,33 95.29 59,250 M US TREASURY MILL FUTURES (RAW) 51m per 100% 95.30 95.58 95.70

-0.07

EUROSLARK OPTIONS (LIFFE) DAtim points of 100% 0.03 0.21 0.48 0.18 0.06 0.02 0,07 0 0 9675 9700 9725 Est. vol. total, Cale 6496 Pure 2556. Previous day's open int., Cale 20200 P IN SURFO SYRES PRANC OP'NOMS (LIFFE) SFr 1m points of 100%. 0.20 0.10 0.04 0.08 0.21 0,41

The FT GUIDE TO WORLD CURRENCIES. repaper and covering over 200 currencies, is now available by dialling the foll number from the keypod or handset of your fax machine, 0891 437 001. Calls are charged at 19p/min cheap rate and 49p/min at all other times. For service uside the UK please relephane +44 171 873 4378 for details on Cityline Internation

2.1 30.12 2.2 1 6388 0.4 6.4191 -2.9 153.98 -3.8 125.175

33.208 1.6453 6.4273 153.21 124.44

7.0366 -2.9 1.198 3.5 1.5393 0.9 1.2477 -0,3

1.375 -0.1

105.155 4.7 104.325 2.5444 -0.4 2.5505 1.4817 -2.5 1.4875

FAST 64 KBIT SATELLITE TECHNOLOGY FOR COMPLETE REAL-TIME DATA OF THE US AND EUROPEAN EXCHANGES FOREX, FUTURES, OPTIONS, EQUITIES, NEWS 44 171-329 3377 39 294 400"1 1 212 259 6750 ATHERS NEW SarQuote



38 DOVER STREET, LONDON WIX 3RB TEL: 0171 629 1133 PAX: 0171 495 0022



FUTURES AND OPTIONS TRADING Clearing and Execution Service 24 hrs Tel. +44 171 329 3030 Fax. +44 171 329 3919



NEW 24-HOUR FOREX DESK Compensive Spreads, Minimum Transaction Size \$100,000 for find our more about our friends), professional service, call Evenire Ramon on 1717 [596 toll 1] or write to the H3 Index ptc, 1 Warnack Ross, London SW(1), 5138



tirea access to exchange floors lames Maswell 121-0171 702 1991

*₽*Market-Eye FREEPHONE 0800 321 321 FAX 0171 398 1001

The I.D.S. Gann Seminar will show you how the markets REALLY work The amazing trading techniques of the legendary W.D. Gana can nease your profits and contain your losses. How? That's the secret.

Book your FREE place. Phone 8171 588 5858

WANT TO KNOW A SECRET?

44 171-865 0800 TREND ANALYSIS LTD

Daily Analysis & Trading Recommendations by Fax FOREX • METALS • BONDS • COMMODITIES For FREE TRIAL Phone 01962 879764 PHILLIP ALEXANDER

Vertes Bosse, 125 Finsbury Pavement, Losdon ECJA 1PA
MENSER
Tel: (+1) 171 417 9720 Fax: (+1) 171 417 9719

\$32 ROUND

SECURITIES AND FUTURES LIMITED



SOVEREIGN (FOREX) LIMITED 24 HOUR MARGIN TRADING FACILITY COMPETITIVE PRICES DAILY FAX SERVICE Tel: 0171 - 931 9188 Fax: 0171 - 931 7114 12a Backingham Palata Rd, Landon SWIW ORE

Brokerage service that's second to none – at discounted prices

Open

50-70% commission savings.
Access to worldwide markets.

24 hour, call-free service.

Institutional rates for currency

Full range of trading support-free

LIND-WALDOCK & COMPANY

£5.£25

- Real-time quotes - Forex data ⇒ U.S. & int'l data ⇒ As low as \$9/day!

KNIGHT-RIDDER'S FUTURES MARKET DATAKIT FROM \$578 nion; Mr. Binnifer Vanii, 78 Fleet Street, Landon ECAY 1HY, Tet: +44 (6) 171 B42 4083

Companies available. For 10 big of Man. D MURPHY, CA **COMPANIES**

GIVE US A STAPLE

And don't forget to add your cheque to fund more Macmillan Nurses to help 1,000,000 people living with cancer. (1 in 3 of us will get cancer)

Cheque amount £..... made out to 'CRMF (F3)' Please send it to:

CRMF FREEPOST LONDON SW3 3BR Macmillan

Cancer Relief Macmillan Fund exists to support people with cancer and their families Regd. Charity No. 261017

LEGAL NOTICES

COURT OF ROME

BANKRUPTCY SECTION

Bankruptcy no. 52748 of Immobiliare Francesca '81 s.r.l. At 12.30pm on 19.02.1996 the Official Receiver Dott.ssa De Virgilius is to sell small building in Montalcino (Siena, Italy). Base price Lit. 536,000,000 and Lk. 15,000,000 for the furniture. 25% deposit by 1pm on 16.02.1996. Receiver Tel. +39 774 608677/608765

INVESTMENT TRUSTS - Cont.

LONDON SHARE SERVICE 52 week Mile high low Captin 185 87 15.2 383 265 287.0 38 25 227 188 83 22.9 4076 324 2,577 716 PFE 20.4 Delay Gold AS ... V 2.1 16.1 Delay Gold AS ... V 3.1 17.7 Delay Mindigs AS ... V 3.1 17.7 Del March 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 199 在,是是是对外,是是这种是一种,我们是一个,我们是一个,我们是一个,我们是一个,我们是一个,我们是一个,我们是一个,我们是一个,我们是一个,我们是一个,我们也是一个,我 一个一个,我们就是一个一个,我们也是一个,我们也是一个,我们也是一个一个,我们是一个一个,我们是一个一个,我们是一个一个,我们是一个一个,我们是一个一个,我们也是 Price 139:d 356 30 108 50 467 | Price | Pric 5.242 289.9 71.8 8.074 8.248 440.9 8.184 183.7 579.3 11.2 8,322 508-1 d 548-1 121 434-1 455-1 331 777-1 165 833 858-9 103 923-2 الفراع الإنوطوي | إلام | إلا الدخر البر الد المؤخوطية إلد الإساسية وطريد | إلم | | إلىما إشادة إلى الماميد المام إلى المامية والمرافع المامية إلى المامية والمرافع المامية المامية المامية الموافع المامية CHEMICALS + or 22 week w Caption (1940)
- begin for (1940)
- control for (1940)
- ## AGA Str ## Motes

AGA Str # 在 1000年 100 MERCHANT 52 week high 98 5 555 779 402 110 110 111 121 121 121 Marin (1925) 1925 1925 1927 1927 1927 1927 1917 1917 1917 1928 1938 Price 56 14 400 356 400 356 400 12 10 504 418 223 383 383 44 406 41 61 70 20 2.0 -BANKS, RETAIL Motes Prize (2004)

Motes الحداد الأبياال الهميؤنية لميقديد المطخفيطيطيفيا BREWERIES, PUBS & REST Aberdeen Steek Masses
Aberdeen Steek Masses
Aberdeen Steek Masses
Aberdeen Mas **BUILDING & CONSTRUCTION** Carrie (1) ##III Carrie Aborgation
Anglian Gap #44 Model
Blookleys #44 Model
Anglian Gap #

Mai Capen 250.4 1168.8 185.2 253.2 184.8 185.2 253.1 185.9 1 | Section | Sect ■ 1777年11月27日 1777日 1

日本のでは、日本

| Company | Comp

| The control of th 75

このでは、日本のでは、大学の大学のでは、日本のでは、日

And the property of the form of the second

Selection of the contract of the selection of the selecti

THE PROPERTY OF THE PROPERTY O

の 10 mm 10

FINANCIAL TIMES WEDNESDAY FEBRUARY 7 1996 **LONDON SHARE SERVICE** | जातिक अस्तितिमामामामामामा । जातिक जातिक अस्ति । अस्त 600 ME1 600 Capting 2164 7,000 427 1,439 179 762,2 439 2,455 1131 9,507 2244 2,525 561 9,507 574 275,4 275 776,2 573 580,0 Appensed by the larged throwns - high lose Appensed by the larged throwns - high lose Appensed by the larged throwns - high lose Appensed by the larged throwns - 1992 + 4 2912 77. 2015 66 Warranta - 1992 + 4 2912 77. 2015 66 Warranta - 1992 + 4 2912 77. 2015 66 Warranta - 1992 + 4 2912 77. 2015 67. Foreign exchange deals to increase on 7th March 1996 Organizations restricted are garding the ability to more quickly and decident and Professional Section 1999. The section of the professional section is now vick and System in the attention. So, if the idea of which the professional section is now vick and System in the attention. So, if the idea of which the profession is now indicated a profession on vickeround recording the profession is now indicated and professional section. The professional section is now indicated and professional section in vickeround recording to the section of the professional section is now indicated and professional section in vickeround recording to the section of the professional section in vickeround recording to the section of the professional section is not become an attention of the professional section in vickeround recording to the section of the professional section in vickeround recording to the section of the professional section in vickeround recording to the section of the professional section in vickeround recording to the section of the professional section in vickeround recording to the section of the professional section in vickeround recording to the section of the professional section in vickeround recording to the section of the professional section in vickeround recording to the section of the professional section of the before hunch and snother in New York and Sydney in the afternoon. So, if the idea of videoconferencing doesn't sound too foreign for your tastes, why not exchange a great deal more information on videoconferencing, at the seminar of the year on 7th March 1996. Call the world leaders in videoconferencing now on: Ar Landon Ar V 131

As Nepon Ar V 131

As Nepon Ar V 131

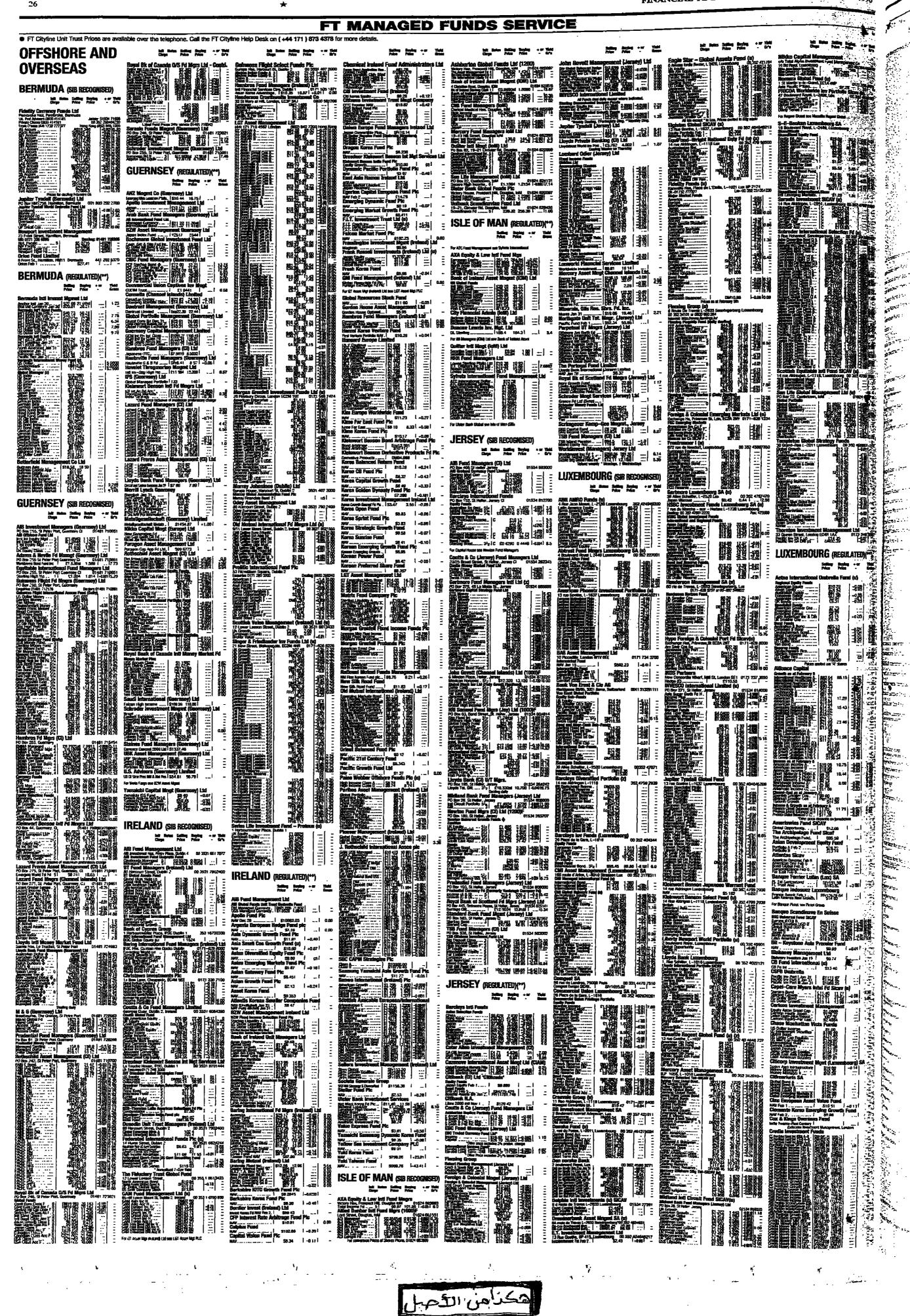
As Nepon Ar V 176

But A Nepon Hotels Price | St. + DX SZ wheek Mag 1 - 1869 have Conclusion 1 -OIL, INTEGRATED ### Summer And Control of the Contro Attantic Richield 2741;
Bit Petroleum 1, 110 St.
Burnah Castrol 110 | Cother Financial | Cother Fina Schemister For State 1984

Share the state of the state 1984

Share the state of the state 1984

In the st



See the see

Manager

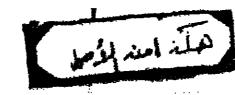
enialisponal in

1. 150

1.02.1 \$25°25' FORE

ABOURG RELIEF

richte Lander Fist



FT MANAGED FUNDS SERVICE Cityline Unit Trust Prices are available over the telephone. Call the FT Cityline Help Deck on (+44 171) 873 4378 for more details. CMS insertrance to the control between 10 M. SO 4 1989 per control Royal Life international most Cont. After the Content and Supplies and Nicko Asia Con Sondara | S10 80 Mikim Bank (Lincombourg) S.A. t (Jersey) Ltd Republic Funds Mikido Banis (Lincombourg) S.A. Life theory (Lincombourg) S.A And Transport :85 -c21 Service Asset Members and Laborate Laborate Asset Members and Laborate Laborate Asset Laborate Laborate Asset Laborate L وغاز ودراهم ارجه زاهم الاحتمال فالأناث Prices Group State Group Con Control Co oral Samoin Lin Assermes Lin (1) Schroder Greenwat Management Cap US Equity Feb 1...... Claridon Bank son Mark war Ecution 2 son Mark war Ecution 2 son Markey Schroder investment Hauft (Bose) The Milinguish Fund had been dear the Course Enterprise Fun Programme Francisco 201 | Stock 16 | ... Scheduler Service 1 (September 1) (September Scottish Equitation between the case of th France Emp Seri Cas Casa 6... | Em) 6.38 | Bare Seri Cas Casa 6... | Em) 6.38 | Bare Japan George Fund Debug Japan George Fund Debug Japan George J. 10.10 42 | 10.58 | Debug Japan George Small Equity Fd (u) Conta Revest Fund Contain Commenced Treat Lynnais and Sant Bone (19) Led (1200) Credit Lynnais and Sant Bone (19) Led (1200) Secretary of Fortage Herrich Life and Life Court Service, December 1 and Life Court Service, Life Court Se Friedry into two Hings (Lansenbourg) SA Friedry into two Hings (Lansenbourg) SA Friedry into two Hings (Lansenbourg) SA Friedry investment (Ci) Lin Friedry investment (Ci ment List Creaty and the State Management Land Control of the State St Security Capital US Really Sun Life bringman (1004) Ltd Sun Li 01481,714108 For 44 D 184 82519 For 44 D 184 82519 For 44 D 184 82519 For 45 D 184 82519 For 47 Logon Fund For 47 Logon Fund Dakes (of Capital Massagement (ALC) Ltd 1313 Setaer Capital Inc tramping Hebra Carl Spacegier KAG 鑑 SHORE FUNDS SHORE FUNDS SAN Proper of Yeld Communication of Computer Management (HLC) Let proper to the Communication of Computer Management (HLC) Let proper to the Communication of Computer Management (HLC) Let proper to the Computer Management (HLC) Let proper to the Communication of Computer Management (HLC) Let proper to the Computer Management (HLC) Let proper to t verging Markets Ltd Foreign & Colo office immediately (2) SE287 (Company in Co. SE287 (Co. Security Capital US Reaty Society Generale Group alorgan Stanley Emerging Market For Swentin Market 1 1723 Hadden Izwattnest Trust Company I Discover investment Official Links Official Control Con AC Startes May Take 91 CHOREN | Horth Atlantic Management Co List Corress | S12.18 12.52 | Horth Star Fund Management Co Cayment List Pund Management Co List Corress | S12.18 12.52 | Horth Star Fund Management Company List Pund Management List Country List Pund Management List College | S12.18 | Horth Start Pund Management List College | S12.18 | Horth Start Pund Management List College | S12.18 | Horth Start Pund Management List College | S12.18 | Horth Start Pund Management List | Horth Start Pund M Agreement of the part of the p Geber Advantage Franks Beller Advantage Franks Enter George Samuel Alliance Capital 177.5 18.13 0 The Jaguar Fund (L.V. Nov. Jan 25. Lerdine Fleening for Minget Lid E Passing for Minget Lid E

■ FT-SE 100 INIDEX PUTURIES (LIFFE) 625 per full Index point

3761.0

4155.0 4155.0

182 1 133½ 2½ 87½ 8 47½ 18 191½ 7 147½ 12½ 107½ 22 73½ 37½ 202 28 188 38½ 128 51 982 37 198½ 5½ 128 51 982 36 263 93 175½ 125½

MARKET REPORTERS

Peter John, Joel Kibazo,

Sett price Change

TO PT-SE MID 250 INDEX PUTURES (LIFFE) \$10 per full index point

E FT-SE 100 INDEX OPTION (LIFFE) ("3747) 210 per full index point

-2.0 -2.5

IN FURO STYLE FT-SE 100 INDEX OPTION (LIFFS) \$10 per ful index point

High

3771.0

+5.0 4155.0 4155.0

Low'

3762.0

TRADING VOLUME

1073.6

All all be a blotter a least the come of the state of the

1.5744 1.

- 9334

· •

42

のでは、東京のでは、日本のではのでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本

€ • : :-

The representative of the region of

W. C.

Equity theres trades

LONDON STOCK EXCHANGE

Corporate announcements take centre stage

By Philip Coggan, Markets Editor

Macroeconomic issues took a back seat yesterday as the market absorbed the news of the break-up of British Gas into two separate companies and a profits warning from Allied Domeco.

The FT-SE 100 index moved in a narrow range of just 12 points during the session, finally managing a modest 0.9 point rise to 3,747.5. The lunior Mid 250 index did slightly better, adding 3.7 at 4,140.1.

Reaction to the British Gas announcement kept traders busy. with the stock recording the day's

received an initial lift, but analysts were sceptical about the demerger's merits and the result was that the shares closed lower on the day. The latest in a series of UK corpo-

rate profits warnings came from Allied Domecq, the drinks group. The warning was not directly linked to a slowing UK economy, referring as it did to difficult European sprits markets and a decline in sterling profits from Mexico.

Nevertheless, Allied's statement is likely to make investors even more cautious as the March results season approaches. The one Footsie company which did report figures yesterday - BSkyB, the satellite TV

growth, but the shares were hit by the Office of Fair Trading's referral of the group's football deal to the Restrictive Practices Court.

More bad news came from the corporate sector when Coal Investments, a company which enjoyed a phenomenal share price rise in 1994, called in the administrators.

On the economic front, industrial production was slightly stronger than expected in December, but this was mainly due to a rebound in the energy sector because of the cold weather. Manufacturing output fell 0.7 per cent on the month and the fourth quarter also showed a decline from the previous three Mr Adam Cole, UK economist at James Capel, said: "Although part of this weakness - which is largely an export phenomenon - is being offset by strength in the consumer sector, there is little doubt that the economy overall will continue to grow at below its long term sustainable rate in the near term. Against

this background, interest rates have

further to fall." The market received a couple of fillips from Wall Street: an early lift to the best level of the day, up 7 at 3,753.6, on the back of the overnight rebound in the Dow Jones Industrial Average; and an afternoon pick-up as the Dow climbed 20 points by the close of London trad-

Bowden rose 10 to 396p and

Wimpey 5 to 144p.
Telecoms giant BT was the

second most active Footsie

stock after British Gas. The

shares finished 4 better at

BT announces third-quarter

results tomorrow and there are

hopes that new chief executive

Mr Peter Ronfield could set out

to make an upbeat start to

There was also positive news

for the group from Germany,

with big utility RWE widely

expected to appounce today

that it will join in with BT and

Viag's joint German telecoms

RT saw 34m shares traded

and a significant two-way pull was said to have set in. The

company faces a number of

potentially stern regulatory

tests this year (notably on

pricing) and analysts are

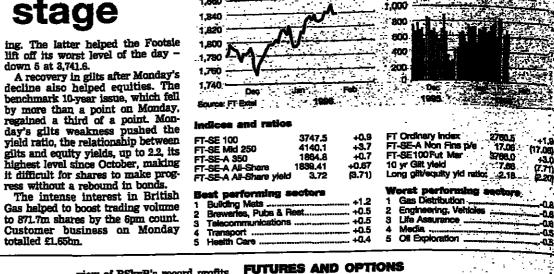
mostly divided on the immedi-

relations with the City.

360½p.

lift off its worst level of the day down 5 at 3,741.6.

decline also helped equities. The benchmark 10-year issue, which fell by more than a point on Monday. regained a third of a point. Mon-day's gilts weakness pushed the yield ratio, the relationship between gilts and equity yields, up to 2.2, its highest level since October, making it difficult for shares to make progress without a rebound in bonds.



Open

Calls 2 470 Pats 12 958

3789.0

FT-SE-A All-Share Index

Demerger deflates Gas

British Gas suffered a day of heavy turnover and a swinging share price following news that the company is to split and the chief executive is to go.

Outsiders might be forgiven for being confused. Only a matter of days ago Lord Hanson decided he had to do something with his ailing conglom-erate and announced plans to split it into four parts.

Almost immediately, Hanson shares started to tumble as the City worried about the sum of the parts calculations and future dividend prospects.

British Gas said yesterday that it was taking the same route. And after an initial surge of enthusiasm, the shares fell back.

Analysts pointed out that although the rationale might have been different the market reaction was the same. British Gas needs to separate into constituent parts because of the new Gas Act and is using the opportunity to demerge fully and "ring-fence" the hit from its onerous take or pay con-

However, demerger will not happen until 1997 and the company's problems, ranging from regulatory pressure to an agreement to buy gas for far more than it can sell it, will not disappear.

Ms Irene Himona of SGST summed up the investor attidemerger is that it will unlock a third".

value for shareholders, but we

do not see how yesterday's move can achieve that." The shares, up 14 at best, ended 2 down at 242½p after 53m changing hands.

Domeco warning

The latest demerger speculation settled on spirits and foods group Allied Domecq after it surprised the market with a profits warning.

At yesterday's annual meeting, the company warned that first-half profits will be 20 per cent lower than a year earlier due to a downturn in the spirits division and dilution caused by food disposals.

The news sent analysts racing to downgrade profit forecasts, with the market consensus moving down from around £625m to some £570m for the year to August 1996. Cazenove, the group's broker, which only downgraded profits estimates last week when it came down to £630m, was said to now be expecting the group to post profits in the region of £570m.

The shares dropped on the news, and at the day's worst were down 64 at 451p. However. vield buying together with talk of a demerger soon lifted the gloom and they recovered to close 81/4 off at 506%p on heavy trade of 11m. A disgruntled trader said:

"This is a company that has been underperforming, and the current management has to start considering the demerger of the spirits business or face the share price going nowhere.

One leading analyst said simply that the company has to tude: "The presumption of reduce its dividend by "at least

Redland advances

Building materials leader Redland topped the Footsie performance charts in good volume on confirmation that the group is to sell its UK brick operations and beef up its stake in German subsidiary

The signs of pro-active management were said to have overcome tax worries and the shares shot forward 12 to 407p in 4.6m traded.

Some analysts had doubts about potential Advance Corporation Tax liabilities should Redland run down its UK earnings. But most industry watchers applauded the plans. Nat-West Securities was quick off the mark with an add note.

Building related shares generally had a good day. Rugby Group firmed 5 to 117p. and Pilkington by 4 to 201p in 8.7m dealt.

There was selective buying

FINANCIAL TIMES EQUITY INDICES

Feb 6 Feb 5 Feb 2 Feb 1 Jan 31 Yr ago "High "Low 2760.5 2758.8 2784.8 2762.8 2768.4 2333.0 2788.2 2238.3 3.79 17.05 16.83 3.76 3.79 3.79 17.20 17.06 17.10 16.88 16.85 16.87 4.51

Or CHESSAL A STREET STREET	i Antionellos	•					
Open 9.00 10.	00 11,00	12.00	13.00 14.0	0 15.00	16.00	High	Low
2765.7 2764.2 2755	L9 2763.8	2758,3 2	756.5 2756.	6 2755.8	2759.8	2767.6	2693.6
	Feb 6	Feb	5 Feb 2	Feb	1 Ja	ก 31	Yr ago
SEAO bargains	31,942	36,0	20 33,08	6 32,4	42 3	3,606	23,992
Equity turnover (2m)†		1649	1.5 1961.	3 1628	B.8 24	426.7	1633.1
Equity bangainst		40,8	85 37,51	2 34,8	41 3	9,548	31,593
Shares traded (mi)†		- 634	.9 691	1 619	9.5	8.8	629.5

E London m	arket de	ta			
Rises and talks"		52 Week highs	and lows	LIFFE Equity optic	003
Total Rises	560	Total Highs	115	Total contracts	3
Total Fells	712	Total Lows	34	Calis.	1
Same .	1.577			Puts	2

Feb. 6 'Data based on Equity shares listed on the London Share Service

FINA

among housbuilders. Wilson ate outlook.

NatWest Securities put out a cautious hold note. The broto 3920. ker's nominal target price for BT is below 350p. "But buying still requires 5 per cent dividend growth over the next five years which, given the regulatory background, cannot be

In the rest of the drinks sector, a meeting with analysts on Monday evening at Vaux Group, spoken of in recent sessions as both a bidder and a bid target, only served to encourage profit-taking in the group's shares. They closed 8

Scottish & Newcastle, which played host to several analysts last week, continued to find favour and the shares ended 11 higher at 665p after volume

Among retailing stocks, Boots surrendered 9 to 606p in trade of 5m. with ABN Amro Hoare Govett said to have advised clients to switch out of the stock and into Great Uni-

versal Stores. Shares in the latter hardened 2 to 693p as some 4.5m shares

changed hands.
Independent petrol retailer Frost Group shook off the recent gloom brought about by the deepening price war among petrol retailers. The shares moved forward 8 to 123p in 1.4m trade.

Mercury Asset Management said it has raised its holding in the company by 1.7 percentage points to 15.4 per cent. Frost reports full-year figures next month and Credit Lyonnals Laing, the group's broker, is predicting profits of £11m.

Bargain hunting in John Menzies saw the shares move ahead 13 to 540p.

Premier Oil was heavily traded as the exploration and production company saw what one trader described as "genuine buying interest". The shares rose a penny to 28%p. with 12m changing hands.

The market took a churlish

view of BSkyB's record profits and sold the shares down 22

Good interim profits had been forecast and once they were out of the way, market-makers concentrated on the monopoly pressures the com-

pany faces. There was an announcement by the Office of Fair Trading that the company's broadcast ing contracts with the Premier League will be referred to the

Restrictive Practices Court. Upbeat traffic figures for January put some buzz back into Eurotunnel which, over the past 12 months, has been one of the worst performing London stocks on debt resched-

The shares have lagged behind the market by 80 per cent over the past year and 27 per cent over the past quarter. Yesterday they topped the FT-SE Mid 250 rankings with a 5 advance to 79p. Trading volume in Paris came close to 4m

nline concerns.

Diversified industrial Williams Holdings came off sharply, reversing recent relative strength with an 81/2

decline to 3351/sp. LONDON RECENT ISSUES: EQUITIES

Issue Amt Mikt. pnce paid cap Net Div. Grs. P/E atv. cov. yld net Ψp High Low Stock 61₂ 51₄ †Ballynutray 125 115 Century Inns 90 72 †Drnatek 68 65 Medialkey 8 8 †Nitrn Petra 105 100 †Flevalston i 60 53 †Self Self Self 81₂ 6 †SkylPharms 205 125 †Vlevinn 6.28 24.6 13.7 - F.P. - F.P. - F.P. - F.P. - F.P. 54 F.P. 35.4 0.13 1.13 3.09 Lv0.96 0.97 6.00

FT GOLD MINES INDEX 52 week 2529.73 AND 2616.98 1705.63

Gold Liferen techno (33) ■ Regiçue! Indices Africa (16) 2.01 0.62 2902.92 -0.8 2927.34 1980.72 44.18 2927.34 1788.20 2188.38 +1.1 2162,29 1379.75 65.98 2186.38 1386.39 Copyright, The Financial Times Unified 1996. "FT Gold Mines Index" is a trademark of The Financial Times Limited, Figures in bracklass show number of companies, Basts US Dollars, Base Values: 1000.00 31/2/92. F Perfel. Latest prices were unavailable for this addition. IT - SE Actuaries Share Indices P/E Xd adj. Total ratio ytd Return Day's Year Feb 6 chge%: Feb 5 Feb 2 Feb 1 ago

PETROFINA

consolidated results is estimated at 11.6 billion BEF in 1995 compared to 10.3 billion BEF in 1994. These results include a 1.3 billion BEF non-recurrent net charge. In 1994, they included 2 billion BEF net gains and non-recurrent results.

The fiscal year cash-flow amounts to 39 billion BEF, an amount which is comparable to last year's. In 1994, the cash-flow included 6 billion BEF non-recurrent gains. In 1995, it includes 1.3 billion in BEF in non-recurrent charges. The 1995 fiscal year includes a non-recurrent charge of 0.9 billion BEF linked to a change in the rules for evaluation and covering the depreciation of the dollar which arose when foreign affiliates' previous results were repatriated to the parent company. It also includes early retirement charges for an amount of 0.8 billion BEF, a 0.3 billion BEF inventory write-back and a 0.1 billion BEF gain on assets sold. Compared to 1994, PetroFina's results show three main developments :

- an improvement in upstream sector results, due to a 1.2 dollar per barrel

(KIA)

Kia Motors Corporation

Incorporated in the Republic of Korea with firminal liability!
U.S.544,000,000 Floating Rate Notes due 2000
[the "Notes"]

Notice is hereby given that the Rate of Interest for the Interest period February 7, 1996 to August 7, 1996 has been fixed at 5.78141% and that the interest poychie on the relevant Interest Payment Date August 7, 1996 gainst Caupon No.3 will be US\$2,922.82 in respect of US\$100,000 nominal of the Notes.

bruary 7, 1996, London : Citibank, N.A., (Issuar Services), Agent Bank CITIBANK

We are the leaders in financial and commodity spread bening. Accounts are normally operard wi 72 hours. Up-to-date prices Sum-Span, Page 609 Teletax CH4. For brochery and account are likely of the control and account

SUCCESS

price forecasting

userest CF4. For brochers and acce application form call 9171 223 3667. * Balest to tas lew

THE TAX FREE WAY TO PLAY THE MARKETS"

the increase of the production in Europe. These factors more than compensated for the reductions in gas prices and production in the United States.

a drop in downstream results, refining margins and the dollar having fallen again. Average margins went from 0.44 BEF per litre in 1994 to 0.33 BEF per litre in 1995 (2.1 \$/barrel in 1994 against 1.8 \$/barrel in 1995). a new increase in chemical sector results,

due to improved margins and quantities sold in Europe and in the United States. However, after a particularly brilliant first semester, reductions of stocks and economic uncertainty in Europe and the Far East led to price drops in the last months of the year. In January 1996, prices started to recover.

The Board of Directors has set the investment budget for 1996 at 34 billion BEF. The whole press release is available at the Barclays Bank plc, 8 Angel Court, Throgmorton Street, London EC2R 7HT PETROFINA Sa.

52 rue de l'Industrie, B-1040 Brussels



Fax: 0171 873 3204 Polly Attwood Tel: 0171 873 4685 Fax: 0171 873 3062

FT Surveys

If you would like to reach readers in 160 countries worldwide with an advertisement, contact: Kirsty Saunders Tel: 0171 873 4823

The Financial Times plans to publish a Survey on

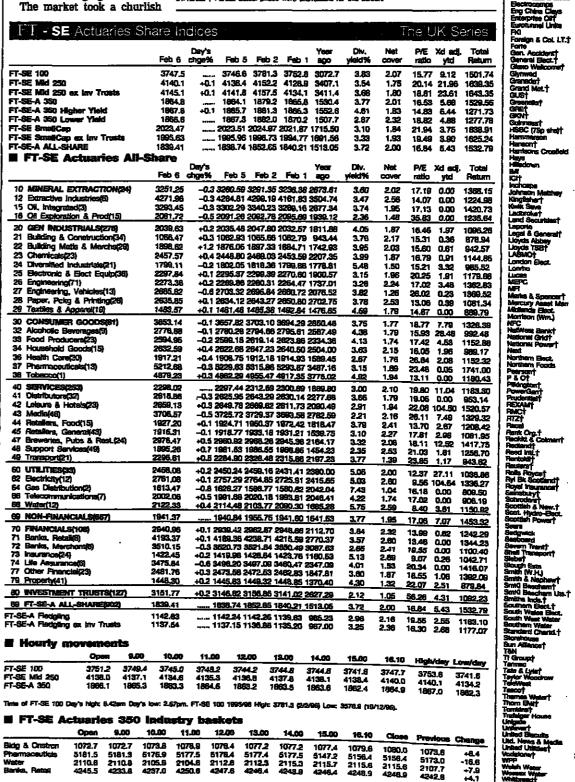
The funiter Ports. Catenay to Europe

 The Weekday FT is read by 139,000 senior business people in Great Britain.

any other National Dally Newspaper. More than half of Europe's top Chief Executives

advertisement positions, please contact:-Pat Looker

Tel: 0161 834 9381 Fax: 0161 832 9248 dra Buildings, Queen Street, Manchester M2 5LF Data seurosa: BNERC 1993, ESRS 1993, COI 1992



Additional Information on the FT-SE Actuaries Share indices is published in Saturday Issues, Lists of constituents are available from FT-SE International Ltd., The Podium, St Alphage House, 2 Fore Street, London, EC2Y 5DA.

The FT-SE Actuaries Share Indices are calculated by FT-SE international Limited in conjunction with the Faculty of Actuaries and the fredibute of Actuaries, 6 FT-SE international Limited 1988. At Rights reserved. The FT-SE Actuaries Share Indices are calculated in accordance with a standard set of ground rules established by FT-SE international Limited in conjunction with the Faculty of Actuaries and the Institute of Actuaries. TT-SE and "Footsle" are trademarks of the London Stock Exchange and the Financial Times Limited and are used by FT-SE International Limited under fearce. Auditor: The WM Company. 1 Sector PE ratios greater than 80 and not covers greater than 30 are not shown. \$ Values are negative. NAME CHANGE: Brackenbridge to Formal (Flodging).

Petroleum Argus Daily Oil Price Reports Petroleum Argus

THE TAX FREE WAY TO PLAY THE MARKETS'

on Thursday, March 14. • The FT is circulated in 160 countries worldwide, with a readership in excess of one million people.

More senior UK business people read the FT than

read the FT. The FT reaches more Captains of Industry in Great Britain than any other national newspaper.

For a full editorial synopsis and details of available

FT Surveys

BRUARY 7 1984

Propostructures de la compart de la compart

end Tem matter m

WORLD STOCK MARKETS	
* 1- Nath Line Yill Prill	## ## ## ## ## ## ## ## ## ## ## ## ##
Committee (160) Commit	The color of the
to the factory floor Rockwell Rockw	Second Color Seco
THE REPORT OF THE PARTY OF THE	1. 1. 1. 1. 1. 1. 1. 1.
FRANCE (Feb 6 / Fr3.) Linch 157 - 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18th
Argentians	Indian 2.14 + 02 2.55 1.25 37 instrain 645.000 -4700 into 345.000 instant 1.25 -50 82 27 9.5 instant 645.000 -4700 into 345.000 instant 1.25 -50 82 27 9.5 instant 2.13 -0.0 4.22 1.30 4.9 215 into 2.2700 -200 34.9 210 instant 1.20 -200 34.9 215 into 2.2700 -200 34.9 210 instant 1.20 .
Figure 1923 1923 1923 1923 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925 1924 1925 1925 1925 1926	100 3 45 - 06 3 66 1 65 1.4 3 45274 Abbill 234 - 1 257 234 234 234 234 234 234 234 234 234 234
### 2905 2945 3015 30739 9 1400 Mar	1

1906/90 Land Stack
18gh Land Stack
18-9 13-4 Mc Ch Men
183-4 42 Neser Corp
18-9 14-4 McI Carp
16-9 13 New Col
12-2 10-3 Newcom M
16-9 13-4 Newcom M
11-9 57 Newcom M
18-9 14-9 Newcom M
18-9 14-9 Newcom M
18-9 14-9 Newcom P
15-4 13 Newcom P

0.90 5.0 18 1.03 6.5 0.76 6.3 1.04 6.4 0.67 6.2 1.13 6.3 1.04 6.6 0.85 8.4 0.40 2.2 12 2.36 4.3 22

Ż

4-4-4-4-4-4

22°s 12°s AAR 1 48°s 35° AAR 7 50°s 36°s ASA 48°s 36°s ASA 44°s 30°s Abbut. 18°s 12° Abbut. 18°s 12° Abbut.

+73 +12 +14 -15 +15 +13

如果不是不是不是不是不是一個 人名斯里斯 的一种有种的

*

1985/85 Low Shock
1991 Low Shock
51-3, 11-14, Culbru
485-2, 34 Custreen
12-3, 11 Current in
55-14, 35-15, Crashin
11-2, E. T. Current in
55-14, 35-15, Crashin
39-12, 14-12, Cycaine Syst
27-3, 10 CyprSm
32-14, 244, CyprAm
78, 31-34, Cytec

0.80 1.00 0.88 1.00 1.08

- D -

Chigo Pross Classo -1¹8

+1 +3 +5 +12

+16 +16 +16

3-1, FAI Insur
16 13-4, FAI Insur
16 13-4, FAI Insur
16 13-4, FAI Insur
16-13-4, FAI Insur
18-13-4, FAI Insu

**** .1₉ +3₁ +1₂ -1¹4 +5_E

+¹4 +14

4-1-1-1-1

+\g -\4

经通行的 人名马勒

48 48½
49¼ 49½
12¼ 12½
26½ 25¾
6½ 35¾
6½ 51¼
96½ 96½
72½ 77¾
8¼ 6¾
8½ 31¼
8½ 31¼

\$2¹g 37³g J Rhear PF 53 39³g J Rhear I. 13⁷g 7⁴g Jacobas Eas 28 77⁴g Jacobas Eas 10³g 7⁴g Jacobas Gr 10³g 7⁴g Jacobas Gr 10³g 7⁴g Jacobas Gr 10³g 7⁴g 53³g Jacobas 77³g 53³g Jacobas 12 7³g Jacobas In 25³g Jacobas In

567₈ 22.4 MCP Corp
64 65°₈ Macoco
21 12'4 Malcoco
23'4 25'4 MCaly
23 15'4 MCaly
23 15'4 MCaly
23 14'7 MScarv
10'4 25'4 MCalo
23'4 11'4 Malcoco
23'4 10'4 MCalo
23'4 11'4 Malcoco
23'4 10'4 MCalo
23'4 11'4 Malcoco
23'4 Malcoco
23'4 11'4 Malcoco
23'4 11'4 Malcoco
23'4 Malc

- N -

الموافية المواوع المواوية والمواوية والمواوية والمواوية والمواوية والمواوية والمواوية المواوية المواوية

THE PY SE COMMENT OF THE PY SE PY SE

+114 +53 +114 +114 +216 +14

- 蜗 -

2 30°3, Melmins up 1.33 1.7 19 1.12 2.7°2 2.0°3, 20°3, Melmins 1.36 2.2 18 446 483, 483°2 2.3 18 486 483°4 4 944781345944544781945454545454545454889421344515448754487844575448948180557107522687199817801549457544875457544875 المتعامل المتعامل المتعاملة المتعامل 25-12 16-14 RLI Curp
12 8-12 RICI Curp
12 8-12 RICI Curp
13-14 RICI REST Resident
13-14 RICI REST RESIDENT
13-14 RICI RESIDENT
13-15 RESIDENT րե գե

33°g 12'4 PrinceMoLP
33°g 12'4 PrinceMoLP
33°g 63°g Proctis
51°4 34°4 Priprisor Off
51°4 34°4 Priprisor Off
51°4 34°4 Priprisor Off
4 3°4 Proter lat
23°4 20°9 Proc Cos
44°4 30°7 Proch
60 46 Prisor-Mol
101 86 Prisor-Mol
25°4 20°4 Prisor-Mol
10°4 82 Pri

-P-Q-1.05 2.1 3.2943 514; 514; 514; 52 1544 514; 512; 62 284 534; 327; 2.08450 0 9 2; 52 53; 52 545

14¾ 8¾ 0 H M Cry
32 16½ Oak Inda
45 21½ Oak Inda
45 21½ Oak Inda
45 21½ Oak Inda
45 21½ Oak Inda
52¼ 16½ Oak Inda
24½ 18½ Oak Inda
34½ 32½ Oak Inda
47½ 20½ Oak Inda
47½ 20½ Oak Inda
47½ 20½ Oak Inda
47½ 20½ Oak Inda
47½ 12½ Oak Inda
47½ 12½ Oak Inda
24¼ 17¼ Oak Inda
24¼ 17¼ Oak Inda
24¼ 17¼ Oak Inda
47½ 10¼ Oak Inda
24¼ 17¼ Inda
24¼ In 1 0.08 0.2 20 462 4
1.00 4.5 16 5855 2
1.25 5.3 17 1272 2
1.50 6.3 11 1877 2
4.56 7.5 220 8
2.86 6.3 13 382 4
2.40 2.8 15 1773 8
0.82 0.7 21 1793 8
0.82 0.7 21 1793 8
0.82 0.7 21 1793 8
0.82 0.7 21 1793 8
0.82 0.7 21 1793 8
0.82 0.7 21 1793 8
0.82 0.7 21 1793 8
0.82 0.7 21 1793 8
0.82 0.7 21 1793 8
0.83 1.9 114 1
1.18 5.4 13 527 2
2.50 7.9 13 167 2
2.50 7.9 13 167 2
2.50 7.9 14 183 3
0.55 3.8 19 147 1
0.92 2.1 9 49 1
0.90 3.3 45 67 7
0.18 1.4625 485 1
0.18 1.4625 485 1
0.18 1.4625 485 1
0.80 4.7 55 33 1

· 上京大学、中国大学、大学等等、中国大学等的大学、大学等的大学、大学等的大学、大学等的大学、大学等的大学、大学等的大学、大学等的大学、大学等的大学、大学等的大学、大学等的大学、大学等的大学、大学、大学

A 大田田の子をかのかのある

+14

the state of the s

- .:

27: 7.6 19 1687 36\(9\) 35\(7\) 36

Q27 32 7 58 8\(12\) 8\(18\) 8\(12\) 20

Q29 9 531 7\(16\) 6\(18\) 18\(18\) 18\(18\) 20

Q30 29 9 531 7\(16\) 6\(18\) 18\(18\) 18\(18\) 20

Q46 1.9 1310031 24\(7\) 24\(14\) 24\(14\) 40

Q56 18 18 251 2012 2014 23\(14\) 40

Q56 12 15\(41\) 1675 29\(18\) 23\(12\) 23\(18\) 25\(18\) 25\(15\) 15\(15\) 15\(18\) 15

Q56 21.5\(41\) 1675 29\(18\) 23\(18\) 25\(18\) 25\(18\) 36\(18\) 37\(18\) 16

Q56 14 17 3010 35\(18\) 36\(18\) 37\(18\) 16

Q56 14 17 301 36\(18\) 36\(18\) 37\(18\) 13

Q56 14 17 20 10\(18\) 361- 39 SCE 801 SCT ADR 801- 37- 38- 804- 5- 805 SCC 18-1 3-3- 804- 5- 805- 5-BEOUR GUEST. ÇIRAĞAN PALACE HOTEL Kempinski İstanbul When you stay with us in ISTANBUL

FINANCIAL TIMES

- B -

FINANCIAL TIMES WEDNESDAY FEBRUARY 7 1996 *	31
NYSE COMPOSITE PRICES	NASDAQ NATIONAL MARKET 4 pro close February 6
INTERIOR OF THE PRICES ***THE PRICES*** ***THE PRICES** **	March 1
20% 20% Burner 10.00 2.11 2.000 2.16 2.0% 2.15 2.0% 2.15 2.15 2.15 2.15 2.15 2.15 2.15 2.15	Sentence S. 1.50 12 2782 24 415 4134
Afficiency 7 61 11-11-11-11-11-11-11-11-11-11-11-11-11	Case St. D. D. 24 Feb 231, 272, 273, -4, Calgara 1 4 1266 164, 154, 154, 154, -154,
Have your FT hand delivered in Have your FT hand delivered in Have your FT hand delivered in the edge over your competitors by having the Financial Times delivered to your home or office every working day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribourg, day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribourg, day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribourg, day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribourg, day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribourg, day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribourg, day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribourg, day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribourg, day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribourg, day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribourg, day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribourg, day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribourg, day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribourg, day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribourg, day. Hand delivery services are available for subscribers in the centres of Baden, Basel, Bern, Blel/Bienne, Fribance day. Hand delivery services are available for subscribers i	Control 12 15 15 15 15 15 15 15 15 15 15 15 15 15

. .

A Committee of the comm

st teld

1RY 7 19%

ed in a dist by vestmen he and begging and and feared that it is a child transfer the a child could transfer the a child could the inclusion of the inclusion of the inclusion of the inclusion of the could are essentially and some could be a child feare essentially and the child feare they are likely cerned about the tree of the conhact they believe liability of the tree believe that they believe that they believe that they believe they are the are they are the are they are th intracts could be same Morecambe's could be same e questioned by

it is currently British Gas a e market price. an peen slow p with North Sea gain time to ament approval transfer the conerutire said die reade to slow the ation to avoid a ith producers I con with produc , pare peer me aster scheme in acts lie at the problems which demerger. The शास्त्रवस्त्री रोजा तेत s decision to repetition in in

has left it cote more gas that tees much hipse petitors. On an-: :s paying some ा ५३५, ग्रिस् igiterm comes ici, at about fa megiciaticist istance au 🙊 to expresse 2 he translette f producers and be able to the constens scheme the government vinich cleared the ui) demerger. en demonstration of the control of t to an girectly to

tion business library national according to the reduced
portion for home per trung die refer in protesti send in

hties regarding contracts said handholders still bandholders still bandholders of the the cause of might ance shareholder anc expense of the serious agency.

rating doubled to the serious of doubled to the serious of the serious development of the serious

Technology stocks stage midday rally

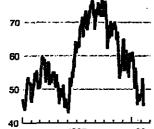
Wall Street

Technology shares continued Monday's rally in midday trading yesterday, helping to put US share prices on course for another record finish, writes Lisa Bransten in New York. At 1 pm, the Dow Jones Industrial Average was up 31.79 at 5,439.38. The Standard & Poor's 500 was 2.50 lower at 643.93 and the American Stock Exchange composite lost 0.96 at 558.23. NYSE vol-

Equities received some support from strength in bonds, which reversed Monday's losses. Near midday, the benchmark 30-year Treasury was up nearly half a point, pushing the yield down to 6.124

ume was 271m shares.

Broderbund



The market shrugged off news that Mr Charles Clough, chief investment strategist at Merrill Lynch, had lowered his recommended allocation on equities to 45 per cent from 50

Advancing technology issues helped the Nasdaq composite to add 5.75 at 1,089.09. The Pacific Stock Exchange technology index rose 0.9 per cent. Rising bigh-technology shares included America Online, up \$21/4 at \$461/4. Applied Materials, \$1 stronger at \$44, and Cirrus Logic, which

added \$11/2 at \$25%. IBM, which is a component of the Dow, continued the upward path on which it embarked last month after

ings. Big Blue added \$1%, bringing the shares to a 52week high of \$114%. Since January 15 the shares have jumped \$31% or 37 per cent. One exception to yesterday's strength in technology shares was Broderbund Software, which tumbled \$8% or 16 per cent to \$44%. After the market closed on Monday, the maker of educational software said that it expected second-quarter profits to fall below the 50 cents a share it reported for

cents a share. Strength in cyclical issues led the Dow to outperform other, more broadly based indices. The Morgan Stanley index of cyclical shares added 0.7 per cent. while the counterpart index of consumer shares was 0.1 per cent higher.

the period last year. Analysts

were expecting profits of 58

In the Dow, Goodyear Tire & Rubber rose \$11/4 to \$481/4. Union Carbide was up \$1 at \$43% and Caterpillar added \$%

Allied Signal, however, slipped \$% to \$51% after reporting operating earnings of 83 cents a share, a cent short of analysts' estimates.

Time Warner advanced \$1% or 4 per cent to \$43% after posting fourth-quarter earnings of I cent a share.

Analysts had expected the communications giant to break

Canada

Toronto was flat at midsession as the gold bullion price slipped, but the market continued to find support in a seasonal influx of retirement fund money. The TSE 300 composite index was 1.66 weaker by noon at 5.031.66 in hefty volume of 51.5m shares.

Among the high technology stocks, Cognos jumped C\$2¼ to C\$60¼ as it formed an alliance with IBM to integrate its Impromptu database reporting tool into the US group's data storage products.

Bema Gold slipped C\$1/2 to while TVX Gold gave up C\$%

lost 44.20 or 1.4 per cent to

3,057.72, with many investors

selling Telmex after the utility

was downgraded by a US bro-

ker on Monday. Telmex ADRs

fell more than 3 per cent in

New York on Monday as Mor-

gan Stanley lowered its rating

SAO PAULO was stronger at

midday, with the Bovespa

index 441 points ahead at

53,771. Smith Barney said yes-

terday that it had raised its

rating on the market to outper-

to neutral from outperform.

Buenos Aires recovers

Buenos Aires staged a partial recovery after Monday's 4 per cent loss. By midsession the blue chip Merval index was 4.98 points better at 539.92.

The market fell sharply at the start of the week on worries about the domestic political situation. Analysts said that investors were nervous ahead of a meeting of congress today which would debate government measures to curb public spending and modify taxes. MEXICO CITY, closed on

Monday for a public holiday,

S African golds drift lower

FT/S&P ACTUARIES WORLD INDICES

Johannesburg drifted lower in moderate dealings as gold bullion struggled to maintain its price level, and base metals

The overall index fell 28.3 to 6,921.9, industrials shed 7.7 to 8,538.7 and golds gave up 13.4 to 1,867.5, although share prices picked up from their lows late in the session as buyers entered the market on optimism that the bullion

NATIONAL AND

Finland (24)... France (99) ...

price would resume its rise. Rustenburg Platinum managed an improvement of 50 cents at R82 in spite of a decline of \$1.50 in the platinum price to around \$427.70 in late afternoon trading.

producer, feil R3 to R50 after posting a 105 per cent rise in first-half attributable profits on Monday but warning of a second-half profits decline.

Oils weak in Paris as Goldman adds downgrade

Oil majors were active in PARIS as Goldman Sachs fol-lowed J.P. Morgan's downgrade last week of Total and, in addition, deleted Elf Aquitaine from its list of recommended stocks. Total lost FFr6.60 to FFr340.60 and Elf FFr7.30 to FF1872.80, as the CAC-40 index made 2.88 to 1,988.47.

Goldman reduced its expo-sure to Total following the group's preliminary results announcement last week. The US investment bank said that it had reduced its estimates for net income in 1996 and 1997 to FFr4.7bn from FFr5bn and to FFr5.1bn from J.P. Morgan said that it was

concerned about the outlook

for the company's chemicals division. "Slower GDP growth in Europe in 1996, particularly in France, could have a significant negative influence on this business," the broker remarked. "Nevertheless, we believe that Total's long term strategy of expanding its chemicals operations in potentially higher growth markets will bear fruit, but that the near term outlook is more difficult."

But Goldman went further by downgrading Elf, based on a pessimistic view of chemicals earnings in 1996. "Against a background of flat oil prices and weak refining margins,"

French of companies Share prices rebased

said Goldman, "Elf's net income is forecast to grow at a rate of less than 4 per cent over the next two years." J.P. Morgan forecast net income of FFr5.1bn, in line with its previous forecast, when the comnany reported its 1995 earnings on February 21: this compared with a forecast FFr5.6bn from Goldman, down from a previous FFr6.2bn.

to FFr6.35 after it reported that it had doubled car traffic last month compared with the same 1995 period.

Eurotunnel rose 50 centimes

FRANKFURT enjoyed a second day of Fresenius phontasie, the pref shares ris-ing another DM21.50 to DM166

DM11.10 to DM446.80 but, here, there was a suggestion of short covering. The Dax index, moving sedately better for most of the day, accelerated late to close with a gain of 21.14 at an Ibis-indicated 2,437.98. Meanwhile, Degussa, ambi-

its position in pharmaceuticals, abined the announcement of AMSTERDAM enjoyed a

healthier session than the one

At this level the shares, although priced at a discount of DM16.50 to the relatively illiquid ordinary shares, were on a 1995 estimated p/e of 32 after more than trebling in under two years. Analysts were beginning to do their sums after an apparently unproductive conference with the company yesterday, and the conflict between caution

Hoechst, which did its big US

linked capital increase with disappointing first-quarter figures. It paid the price, falling DM9 to DM543.50.



and euphoria remained. deal last year, and bought a lot of value for shareholders, rose

tious like Hoechst to expand

which started the week. regained the 500 level and closed up 4.36 at 502.73.

for a two-day gain of DM36 or 27.7 per cent on its dialysis

THE EUROPEAN SERIES 14.00 15.00 Close 13.00 16.30 11.00 12.00 1548.63 1549.17 1549.90 1549.22 1549.38 1550.06 1550.42 1551.45 1662.81 1662.89 1663.78 1662.07 1663.12 1663.44 1663.05 1662.29 Jan 31 Jan 30 Feb 2 Feb 1

> F1 68.80 as investors responded to Monday's news that its troubled German subsidiary, Grundig, was to be restructured, and that the Dutch parent would no longer be responsible for any losses that Grundig might make from 1997 onwards. Analysts suggested that this might be a sign that Philips could be preparing to sell its 32 per cent stake.

In the publishing sector, VNU added 70 cents at F1 25.30 following its 10-for-one share There was less cheer for Fok-

ker, the current speculative market play, which lost 40 cents or 8.5 per cent to F14.30 after the company warned that negotiations with potential partners did not include a bid for either the listed shares or bonds. The company elaborated that interest from potential buyers, said to include Bombardier, of Canada, and Samsung Aerospace, of South Korea, was limited to its subsidiaries or their activities.

ZURICH recouped almost

two-thirds of Monday's sharp

fall as firmer bond futures

combined with a strengthening dollar. The SMI index picked up 32.1 to 3,253.8. Among financials, the recovering Swiss Re and UBS were among the day's best performing blue chips. UBS bearers rose SFr24 to SFr1,271 and

Swiss Re SFr22 to SFr1,216.
Adia, the temporary employment agency, jumped SFr12 to SFr233 on recent recommendations and active buying by one private bank. A SF121 rise in Sulzer to SFr787 was attributed to buy recommendations and a warrant issue. Among second liners, Esec, which makes specialised equipment for the semiconductor industry, rose SFr100 to SFr5,200 in further

MILAN finished little changed, tracking bonds in

their recovery from earlier lows. The Comit index fell 1% to 625.08, while the real-time Mibtel index picked up from low of 9,931 to finish just

higher at 9,993. Rinascente, Italy's largest retailer, was L155 higher at L10,850 on rumours that the Agnelli family finance com-pany Ifil planned to sell its holding for a possible purchase of France's Eridania Beghin. Say. Late in the day Mr

Umberto Agnelli, president of Ifil, denied talk of a sell-off Telecommunications stocks continued to weaken after their recent strong run. Stat lost L103 to L4.951 and Telecom Italia was L42 down at L2,822

STOCKHOLM featured a 19 per cent gain in forestries as the Affärsvärlden General index rose 12.0 to 1,788.6, but Autoliv, the car safety equip-ment maker, dived SKr26 or more than 7 per cent to SKr264 on indications of lower growth in airbags this year.

BRUSSELS saw steelmaker Clabecq drop a further BF182 or 31 per cent to BFr180.cm doubts over its capacity for survival. Banks reversed early gains and the Bel 20 index eased 1.48 to 1,684.51.

Written and edited by William

Nikkei ahead as Taipei drops 1.4% on China threat

Speculative purchases and echnical activity balanced earlier losses caused by the yen's rise against the dollar, and the Nikkei average turned up for the first time in three trading days, writes Emiko Terazono in

The 225-share index put on 97.77 at 20,751.15 after moving between 20.555.61 and 20,767.79. The dollar's decline below the Y106 level prompted profit-taking, while foreigners, discouraged by mounting uncertainty over the housing loan bailout, turned net sellers.

Volume totalled 600m shares against 516m. The Topix index of all first section stocks rose 1.89 to 1,602.89 and the Nikkei 300 by 0.60 to 299.05. In London the ISE/Nikkei 50

index was up 0.54 at 1,400.63. The investment trust unit of Daiwa Securities went for a newly launched investment trust fund linked to index futures, prompting arbitrage buying. Trading of speculative stocks, meanwhile, led activity as the issues were bought by individual investors and brokerage dealers.

Overseas investors, who had been the main buyers of Japanese shares, took profits on large-capital steels and shipbuilders, which had led the market's recent rally. Nippon Steel relinquished Y7 at Y358 and Mitsubishi Heavy Industries Y6 at Y840.

Financials, which led the Nikkei's decline on Monday due to worries over the government's bailout scheme for the ailing housing loan companies, were mixed. Fuji Bank rose Y60 to Y2,370 but Sumitomo Bank fell Y10 to Y2,000 and Daiwa Bank lost Y16 to Y762. Brokers were also mixed, with Nikko Securities up Y10 to Y1.280 and Nomura Securities retreating Y30 to Y2,260.

Mitsubishi Plastics, a resin processor, forged ahead Y72 to Y693 on rumours of a development in integrated circuit cards. Kanebo, a cosmetics maker, jumped Y80 to Y370 on reports that it will enter the Swire A jumped HK\$1.25 to

Pound Sterling Index

184.37 134.28 163.96 182.85 126.32 144.83 210.21 145.22 166.50 168.18 114.81 131.63 153.42 105.99 121.52 282.06 201.78 231.33 181.10 125.11 143.44 181.83 125.69 144.10

US

187,32 215,35 170,25 157,18 299,20 185,52 186,38 170,45

271.53 274.73 80.31 230.41 458.61 437.76 165.40 310.60 222.56 192.03 231.18 259.08

447.68 436.89 258.12 251.98 79.82 77.72 152.71 149.06 520.84 508.41 1211.63 1182.71

The FT/S&P Actuance World Indices are owned by FT-SE international Limited, Goldman, Sachs & Co. and Standard & Poor's. The indices are compiled by FT-SE international and Goldman Sechs in conjunction with the Faculty of Actuaries and the Institute of Actuaries. Nativeet Securities Ltd. was a co-founder of the Indices.

-0.9 -0.8 -1.1 -1.9 -0.1 -0.9 -0.5 -1.6

0.1 -0.9 -1.4 -1.1 0.5 0.0 -1.1 -0.6 -1.1 -1.4 -1.4 0.8 -0.8

143.49 160.80

143.67 143.48 164.61 160.80 1756.23 300.83 175.62 300.83 175.62 141.60 147.00 130.04 130.04 130.04 130.04 147.10 101.86 177.10 1

179.30 123.16 164.86 113.12 433.33 297.89 249.49 171.39 76.46 62.53 148.28 101.86 507.72 348.80 1171.93 905.10

164,86 113,12
433,33 297,89
249,49 171,39
76,46 52,53
148,28 101,88
507,72 348,80
1171,93 805,10
265,92 182,68
78,02 53,50
223,97 153,88
449,97 309,12
420,78 289,07
159,38 109,50
297,33 204,26
215,54 148,07
167,12 128,55

187.12 128.55 223.76 153.72 252.72 173.62

0.8 230.96 158.67 182.40 200.72 -0.1 195.17 134.76 154.92 175.52 -0.5 266.11 182.82 210.16 242.35 0.3 161.38 110.87 127.45 114.11 0.1 175.77 120.75 138.81 137.43 0.8 246.45 169.31 194.63 254.20 -0.2 176.83 121.48 139.85 148.61 0.2 222.34 183.96 222.98 256.01 0.1 177.96 122.05 140.31 141.91 0.4 188.42 136.31 156.70 171.55 0.4 229.82 157.88 181.50 223.75

-0.1 -0.1 -0.7 -0.4 -0.8 -0.0 0.1 0.4 -0.6 -0.4 -1.0 0.1 0.1

....261,28

3.85 1.50 3.26 1.58 2.41 1.80 3.10 1.85 3.18 3.34 1.62 3.16 4.50 7.53 1.83 3.39 1.90 1.90 1.97 4.15

2.18 3.02 1.82 1.18 2.03 2.19 2.38 2.87 2.06 1.91 2.53

semiconductor business with its developed integrated circuits for personal computers and video games.

Speculative favourites were traded actively. Rhythm Watch, the most active issue of the day, rose Y1 to Y616 and Kyokuyo put on Y40 at Y1,150. Some high-technology stocks rose in spite of the weaker dollar, Fujitsu by Y10 to Y1,110 and Sony by Y80 to Y6,500. Toshiba, however, lost Y5 to Y827 and NEC Y20 to Y1,260.

In Osaka, the OSE average

slipped 53.46 to 22,316.94 in vol-

ume of 111.8m shares.

Roundup

Worries about a possible military threat from mainland China left TAIPEI down another 1.4 per cent. The weighted index dropped 69.03 to 4,690.22.

The market had been frightened by a report in a Hong Kong newspaper that China was planning a military exercise involving 400.000 troops on land opposite Taiwan. While most analysts did not

expect an invasion, any buildup of force by the Chinese in the past had been a cue for heavy selling. The market was also auxious ahead of the presidential election on March 23.

BOMBAY turned sharply lower after an untrue rumour. that the opposition Bharatiya Janata party leader L.K. Advani had been assassinated gave speculators the opportunity to take profits following the market's 14.4 per cent surge during the previous six

The BSE-300 index finished 78.43 down at 3.154.89 as Reliance fell Rs17.50 to Rs202. HONG KONG closed off the day's low as a late rally in blue chips, rumoured to be the object of covered warrant issues, erased some of the effects of earlier profit-taking.

The Hang Seng index ended 92.74 down at 11,391.38. Turnover shrank to HK\$7.1bn. Among shares that climbed late in the day. Hutchison fin-

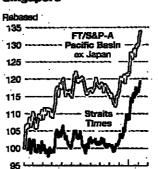
ished 50 cents up at HK\$52.25,

162.35 215.81 165.86 308.55 170.25 86.08 156.38 157.18 125.84 234.05 302.74 252.41 177.54 276.11 171.13 149.36 191.17 161.53 131.79 171.28 141.06 444.40 448.01 299.77 231.97 262.70 205.44 39.34 282.71 65.45 102.98 164.82 136.95 512.01 561.96 423.77 9308.67 1237.14 647.81 1

181.83 125.68 144.10 149.36 191.17 161.53 161.62 161.63 181.83 125.68 144.10 149.36 191.17 161.53 161.62 16 168.38 114.94 131.79 131.79 171.28 141.06 141.06 141.06 251.00 161.05 161.05 161.65 161.05 17.85 161.05 161.05 161.05 17.85 161.05 161.05 17.85 161.05 161.05 17.85 161.05 161.05 17.85 181.05 1

Singapore

Source: Fi Extel



HK\$70 and Hang Seng Bank rose HK\$1 to HK\$73. Locally listed China-incorpo-

trend on rotational buying of laggards, the H share index SINGAPORE ended a little firmer, but well below early

rated companies bucked the

ers took some profits from the top of the recent bull run. The Straits Times Industrial index finished 9.70 higher at 2,493.71, having peaked in early trade at a record intra-day level of 2.503.96, breaching 2,500 for the first time.

record-breaking highs as deal-

KUALA LUMPUR failed to take heart at an unexpectedly modest November trade deficit although a late rally nudged the composite index into positive territory to close 2.91 up at 1.082.79.

SEOUL was pulled down by

declines in Samsung Electronics and profit-taking in banking shares, and the composite index finished 9.47 weaker at 881.21 in relatively active vol-

ume of 30.2m shares. Samsung Electronics lost Won7,000 to Won135,000 on rumours that Merrill Lynch had reported softening demand semiconductors. SYDNEY was slightly lower, led by a decline in gold stocks. The All Ordinaries index eased

2.0 to 2,269.7. Volume was 247.6m shares worth A\$539.1m. Dealers said domestic investors were withdrawing from market activity ahead of the general election on March 2. The gold shares index fell

30.5 to 2,237.5, with Newcrest

Mining retreating 17 cents

to A\$6.38, Gold Mines of Kall goorlie 4 cents to A\$1.53 and PosGold 6 cents to A\$3.45. The banking sector weak ened after recent gains on speculation that the Conserva tive opposition party migh win the general election. Coca Cola-Amatil shed 24 cents to A\$12.50 ahead of

today's 1995 results. MANILA was affected by the overnight fall in Philippine Long Distance Telephone or Wall Street. As a consequence the composite index lost 4.21 at 2,915.03, in volume of 1.7bn shares worth 2.1bn pesos.

.

Times:

Erope

Nan est

CHEISTO

3.674

BANGKOK was modestly firmer in spite of a lack of for eign interest. The SET index gained 4.06 at 1,415.04 in turn over of Bt8.4bn

"Samba achieves record results for the seventh successive year."

Directors' Report

1995 saw Saudi American Bank's profits increase for the seventh consecutive year reflecting continued success in our strategy of emphasising a process of product and technology innovation focusing on providing superior customer service.

Assets Cash and Due from Banks

Liabilities and Shareho Customer Deposits

Total Liabilities and Shareholder

Shareholders' Funds

Other Assets

Total Assets

Net income for 1995 equals SR 1.072 million (1994: SR 1.014) million; 1993: SR 942 million). The Bank's growth in profits is a realisation of our goal of managing cost growth without sacrificing expansion into these market and product niches where we believe that SAMBA possesses an inherent advantage. This resulted in growth in holb our gross recentles as well as not revenue from funds during the

this approach is mirrored in the increased charge for potential loan losses of SR 127.7 million (1994, SR 72.4 million; 1993; SR 5.1 million) which we consider prudent in line with our expansion into newer business areas and to cater for the present economic environment. However, the quality of our credit portfolio remains sound and we feel that the level of our reserves is adequate to absorb the impact of any unforescen adverse event in this portfolio. The Bank's total assets at the year end of SR 40.8 million (1994-

SR 13.1 hillion). The Bank's investment portfulto of SR 15.4 hillion at the year end (1994: SR 17.8 hillion; 1993: SR 17.3 hillion) continues to reflect our bias towards investing in Sandi Government securities and bigh quality OECD government investment grade bonds.

equity of 28% (1994: 29%, 1993: 32%) which is one of the highest In the region and carnings per share of SR 44.711994; SR 42.3: 1993-

dictdend of SR 25 per share to the Saudi shareholders.

We continue to bold a conservative tiew on managing risks and

SR 43 6 hillion: 1993: SR 39.8 hillion) have been relatively stable over the past three years reflecting the Bank's increased focus on fee based products. Customer deposits of SR 30.9 billion (1994; SR 31.6 billion; 1993: SR 30.1 billion) were slightly lower than in previous years while the loan portfolio stood at SR 17.4 billion (1994: SR 17.0 billion; 1993.

Our ber financial indicators remain excellent, with return on

After taking into account the Bank's performance during the year and after retaining adequate funds for future expansion requi the Board of Directors recommend a gross dividend of SR 628 militon for the year 1995. After deduction of Zakat, this will yield a net

During the financial year 1995, Saudi American Bank allocated SR 2,042,082 as donations to various charitable, educational and other Directors' remuneration for 1995 totals SR 1,260,000. Attendance fees for Board and Executive Committee meetings equal SR 81,000

Directors in their capacity as Executive Directors of the Bank amounts in SR 2714,940 In addition to the above. Directors' fees and expenses for SAMBA's

and SR 111,000 respectively. Expenses including travel, board and

lodging incurred by Directors for attending meetings of the Board

and Executive Committee amount to SR 256,160. Compensation of

overseas subsiduiries amounted to SR 206,217. Appropriation of Income The Board of Directors recommends that net income for the year be

appropriated distributed as follows: Net income for the year Transfer to Statutory Reserve (270,009) Transfer to General Reserve (170.000)Proposed Dividend (628,000) Transfer to Retained Earnings

Dividends shall be available for distribution immediately after approval by the shareholders at their Annual Ordinary General Meeting. Dividend claims may be presented for settlement at the Mak's registered bead office or any of its hranches.

Financial Highlights

At the Annual Ordinary General Meeting of the Bank's sbareholders, held during March 1995, Messrs. Whinney Murray & Co. and Al Juraid & Co. were appointed as joint auditors for the fiscal year ending 31 December 1995. The forthcoming Annual Ordinary General Meeting of shareholders shall re-appoint the existing auditors or appoint other auditors and determine their remuneration for the audit of the Bank for the year ending

SR'000		1995	1994
6.061 must	Statement of Earnings	SR 000	SR'000
6,951,995 17,013,375 17,954,543 1,694,908 43,604,711	Operating Revenue Less: Operating Expenses Total Operating Income Provision for Lina Losses Net Income for the year ended	1,928,725 (729,380) 1,199,345 (127,662) 1,071,683	1,752,671 (666,361) 1,086,310 (72,366) 1,013,944
31.624,993 6,726,559	December 31, 1995		1,015,711
1.020,066 3.653,093			
43.604.711			

6,521,198

15,504,921

10,848,460

4,279,457

50,355,318

≶4.100,184

238.95 231.29 159.76 183.20 199.16 238.79 203.06 198.21 159.76 183.20 199.16 238.79 203.06 198.21 136.93 157.00 177.52 204.32 276.37 269.77 186.37 213.68 244.61 235.02 166.26 162.31 112.13 128.56 115.10 171.87 181.50 177.16 122.39 140.33 138.80 183.39 252.76 246.72 170.44 195.43 252.15 254.80 183.24 179.96 123.56 141.67 150.54 184.61 281.42 284.46 196.51 225.32 255.90 291.91 183.53 179.14 123.78 141.90 143.29 184.71 204.24 198.36 137.73 157.91 171.78 205.14 234.88 230.98 159.75 182.98 223.59 237.80 Saudi American Bank Read Office: PO Box 853, Blyath 11421 Tel Okto 111477 17th, Samba London: Nagistingsle House, 65 Curson St., London Wily 7PE, Tel: (44) (17t) 395 4411. Office: P.O. Box 855, Myson 1942 And April 1977 April 1979 April 1 Copyright, FT-SE International Limited, Goldman, Sachs and Co. and Standard & Poor's. 1996. All rights reserved. "FT/S&P Actuaries" is a joint trademark of the Pinandal Times Limited and Standard & Poor's. Lases proces were unternable; for this edition.